

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR MCGEE OIL AND GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SE/NE 2088'FNL, 422'FEL 627090X 40.037585

At proposed prod. Zone 44327824 109.510380

14. Distance in miles and direction from nearest town or post office\*

20.8 +/- MILES FROM OURAY, UTAH

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

422'

16. No. of Acres in lease

1920.00

17. Spacing Unit dedicated to this well

40.00

18. Distance from proposed\* location\* to nearest well, drilling, completed, applied for, on this lease, ft.

REFER TO  
TOPO C

19. Proposed Depth

9930'

20. BLM/BIA Bond No. on file

RLB0005239

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

4780'GL

22. Approximate date work will start\*

UPON APPROVAL

23. Estimated duration

TO BE DETERMINED

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature

Name (Printed/Typed)

SHEILA UPCHEGO

Date

4/18/2007

Title

SENIOR LAND ADMIN SPECIALIST

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL

Date

04-26-07

Title

Off ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

APR 23 2007

Federal Approval of this  
Action is Necessary

DIV. OF OIL, GAS & MINING

T9S, R21E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

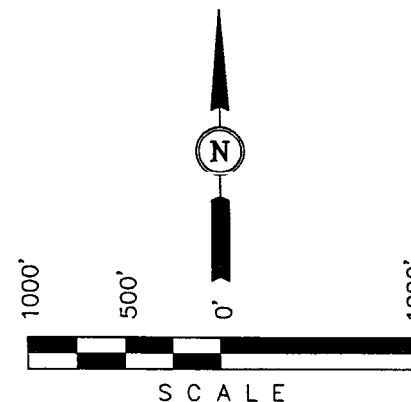
Well location, NBU #921-14H, located as shown in the SE 1/4 NE 1/4 of Section 14, T9S, R21E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

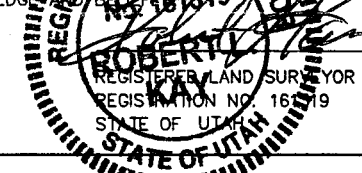
### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



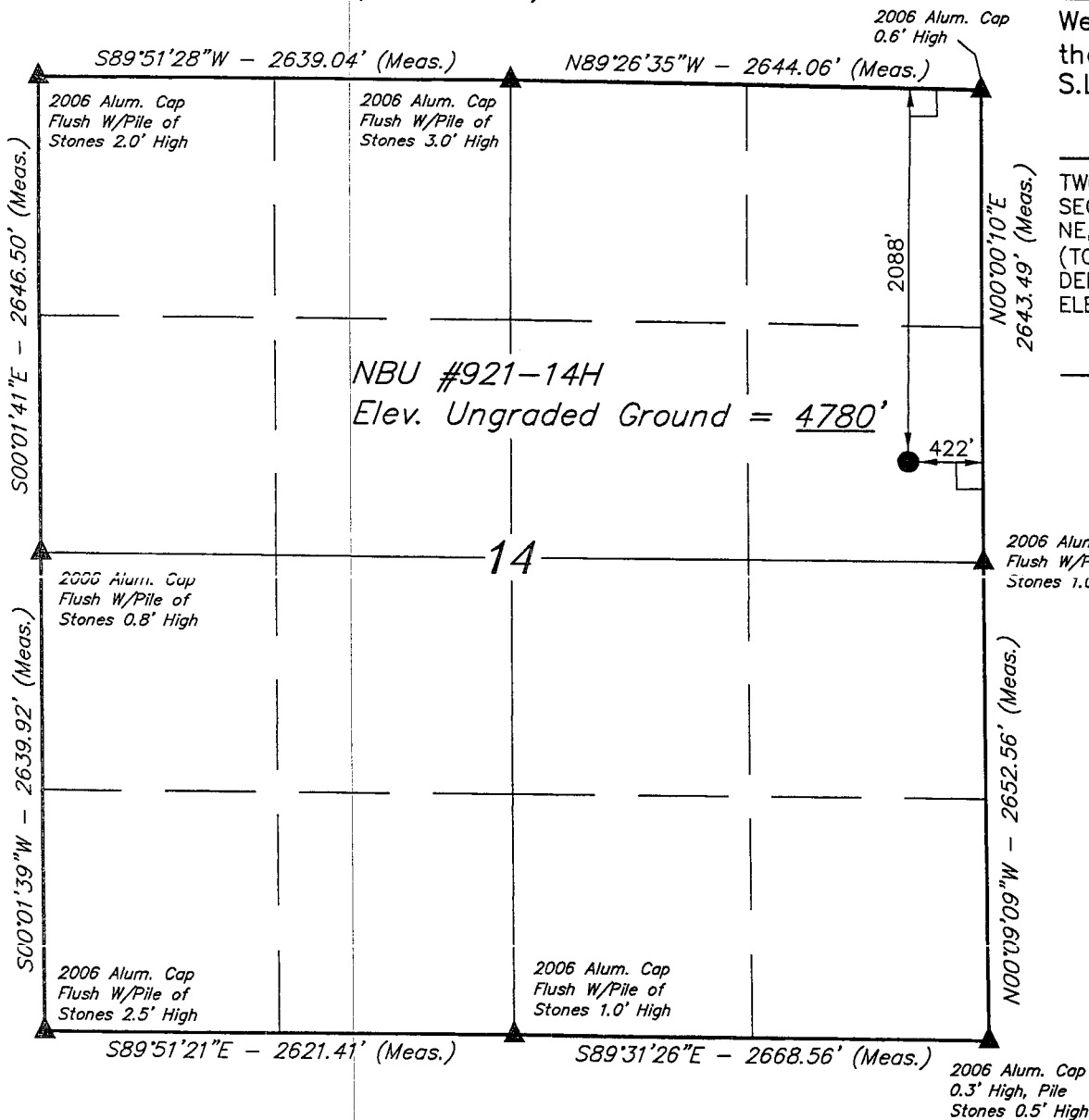
### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-22-07	DATE DRAWN: 01-24-07
PARTY D.A. B.M. C.H.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	



### LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 40°02'15.27" (40.037575)  
 LONGITUDE = 109°30'39.94" (109.511094)  
 (NAD 27)  
 LATITUDE = 40°02'15.40" (40.037611)  
 LONGITUDE = 109°30'37.47" (109.510408)

NBU 921-14H  
SE/NE Sec. 14, T9S, R21E  
UINTAH COUNTY, UTAH  
UTU-01193

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1634'
Top of Birds Nest Water	1997'
Mahogany	2351'
Wasatch	4996'
Mesaverde	7775'
MVU2	8723'
MVL1	9300'
TD	9930'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1634'
	Top of Birds Nest Water	1997'
	Mahogany	2351'
Gas	Wasatch	4996'
Gas	Mesaverde	7775'
Gas	MVU2	8723'
Gas	MVL1	9300'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

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4. **Proposed Casing & Cementing Program:**

*Please see the Natural Buttes Unit SCP.*

5. **Drilling Fluids Program:**

*Please see the Natural Buttes Unit SCP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SCP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9930' TD, approximately equals 6157 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3972 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please see Natural Buttes Unit SOP.*

10. **Other Information:**

*Please see Natural Buttes Unit SOP.*

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**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	April 18, 2007	
WELL NAME	NBU 921-14H	TD	9,930'	MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE Utah
ELEVATION	4,779' GL		KB 4,794'	
SURFACE LOCATION	SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL			BHL Straight Hole
Latitude:	40.037575	Longitude:	109.511094	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde			
ADDITIONAL INFO	Regulatory Agencies: TRIBAL (SURF & MINERALS), BLM, UDOGM, Tri-County Health Dept.			

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
			**For wells w/ surf csg set below 2200' app 10 jls of 33# J55 will be run on bottom		
Catch water sample, if possible, from 0 to 4,996'					
	Green River @	1,634'			
	Top of Birds Nest Water @	1,997'			
	Mahogany @	2,351'			
	Preset f/ GL @ 2,500' MD				
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD					
Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.8 ppg
	Wasatch @	4,996'			
	Mverde @	7,775'			
	MVU2 @	8,723'			
	MVL1 @	9,300'			
	TD @	9,930'			Max anticipated Mud required 11.8 ppg



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT	GR	CPLG	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.58*****	1.39	3.59
						3520	2020	564000
	9-5/8"	2100 to 2500	36.00	J-55	STC	1.14*****	1.73	7.98
PRODUCTION	4-1/2"	0 to 9930	11.60	I-80	LTC	7780	6350	201000
						1.99	1.04	2.00

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 3908 psi
- \*\*\*\*\* Burst SF is low but csg is stronger than formation at 2500 feet
- \*\*\*\*\* EMW @ 2500 for 2270# is 17.5 ppg or 0.9 psi/ft

## CEMENT PROGRAM

		FT OF CEMENT	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	2000	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,490'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	490	60%	11.00	3.38
	TAIL	5,440'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1520	60%	14.30	1.31

\*Substitute caliper hole volume plus 10% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE:

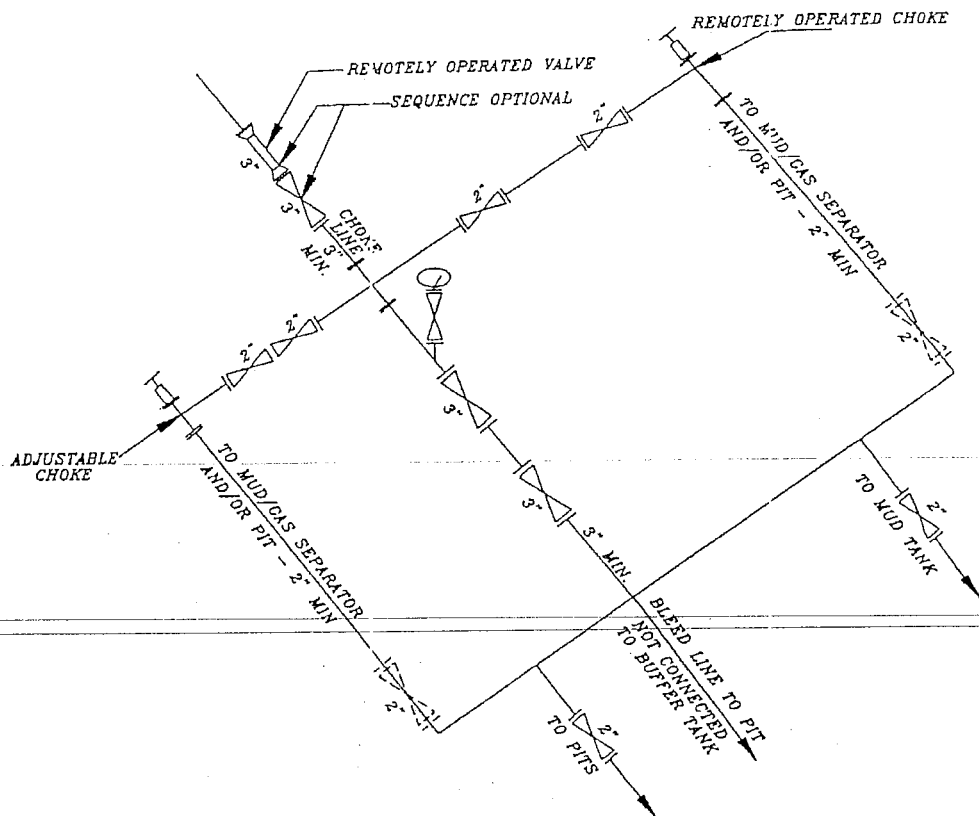
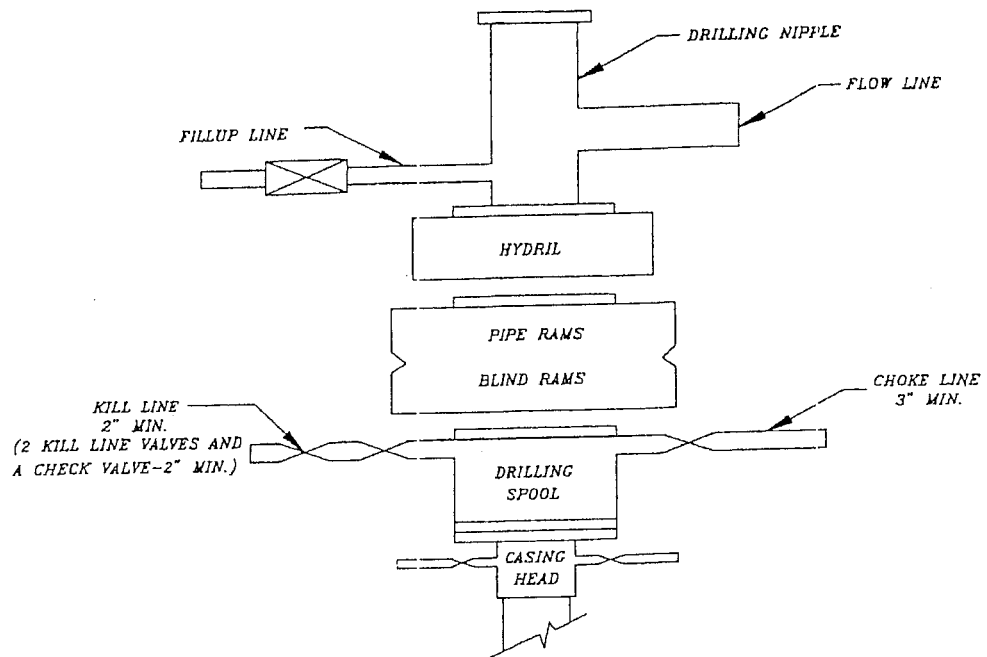
DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

NBU921-14H DHD

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 921-14H  
SE/NE SEC. 14, T9S, R21E  
UINTAH COUNTY, UTAH  
UTU-01193

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

**2. Planned Access Roads:**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

Approximately 0.2 +/- miles of new access road. Please refer to the attached Topo Map B.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*Please see the Natural Buttes Unit SOP.*

Approximately 843' +/- of 4" pipeline is proposed from the location to an existing pipeline.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

**5. Location and Type of Water Supply:**

*Please see the Natural Buttes SOP.*

**6. Source of Construction Materials:**

*Please see the Natural Buttes SOP.*

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**7. Methods of Handling Waste Materials:**

*Please see the Natural Buttes SOP.*

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

*Please see the Natural Buttes SOP.*

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

*Please see the Natural Buttes SOP.*

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe  
P.O. Box 70  
Fort Duchesne, Utah 84026  
(435) 722-5141

12. **Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

**13. Lessee's or Operator's Representative & Certification:**

Sheila Upchego  
Senior Land Admin Specialist  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bond #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

4/18/2007

Date

**Kerr-McGee Oil & Gas Onshore LP**  
**NBU #921-14H**  
**SECTION 14, T9S, R21E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.8 MILES.

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# Kerr-McGee Oil & Gas Onshore LP

## NBU #921-14H

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 14, T9S, R21E, S.L.B.&M.

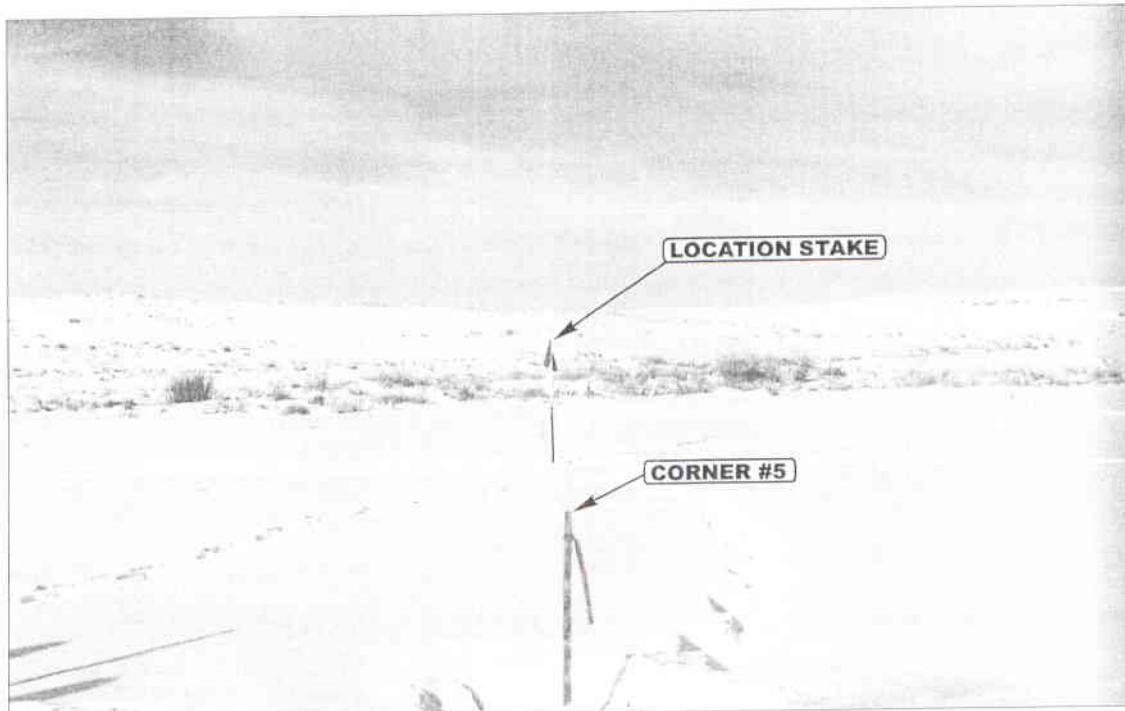


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY

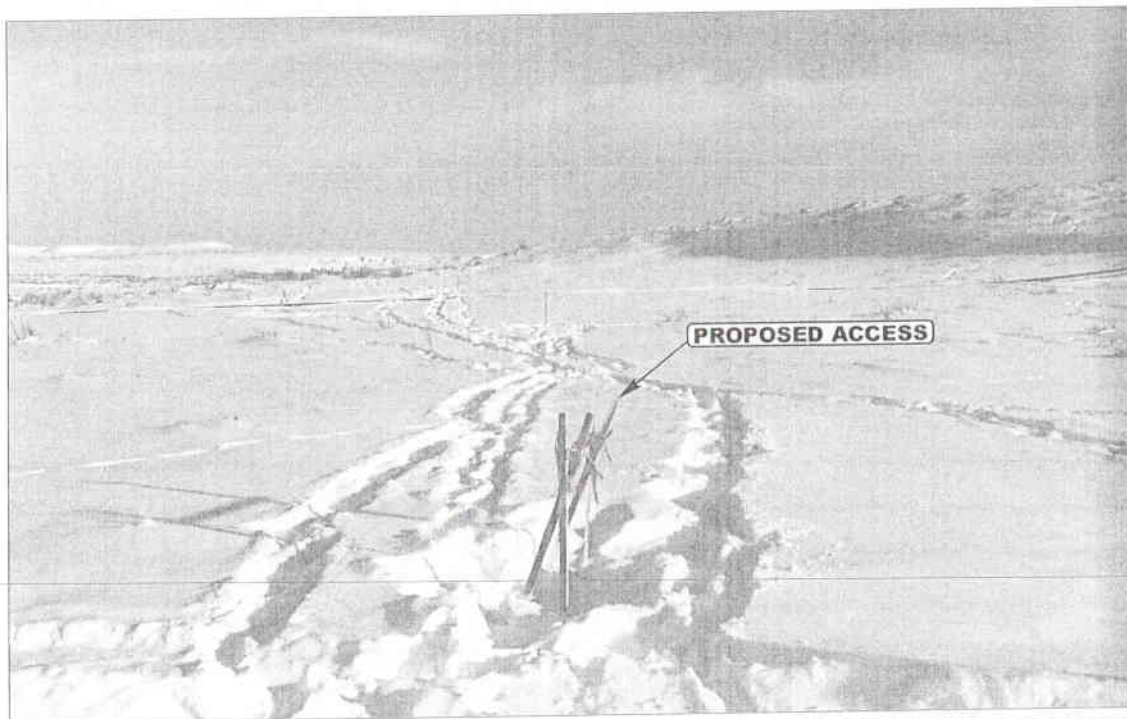


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

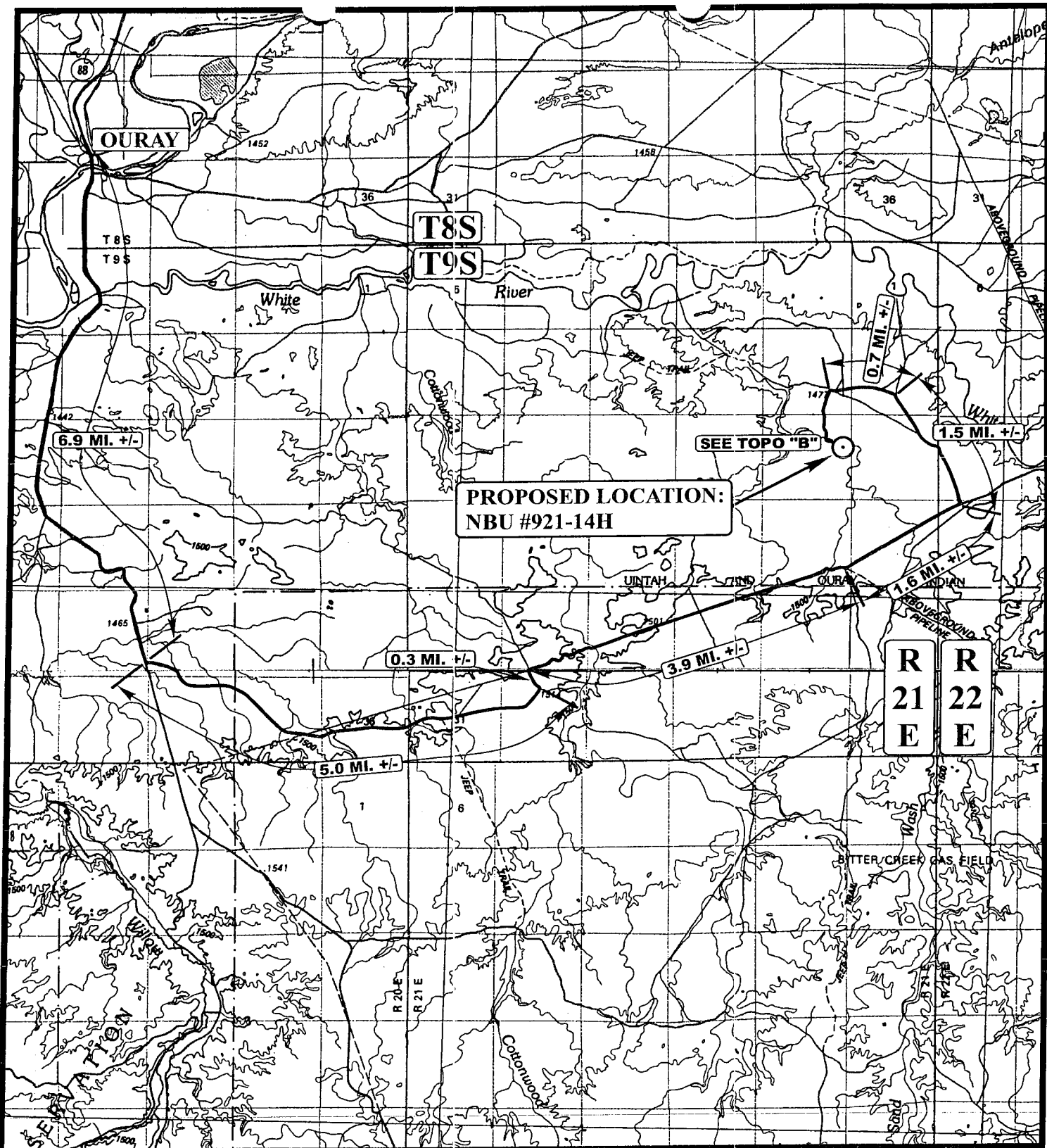
01 23 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: L.K.

REVISED: 00-00-00



# LEGEND:

○ PROPOSED LOCATION

## Kerr-McGee Oil & Gas Onshore LP

NBU #921-14H

SECTION 14, T9S, R21E, S.L.B.&M.

2088' FNL 422' FEL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

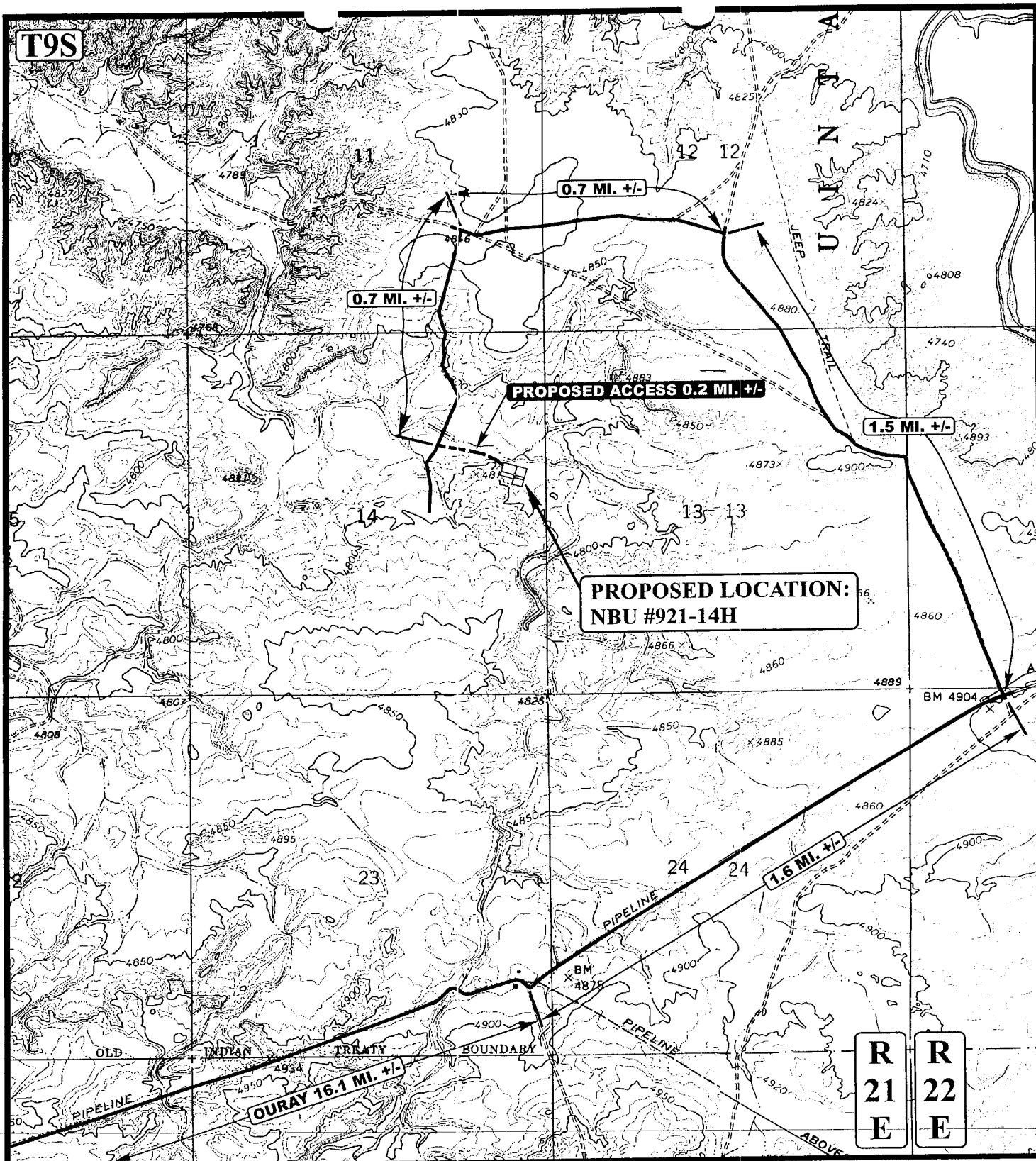


TOPOGRAPHIC  
 MAP

01 23 06  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REVISED: 00-00-00





# LEGEND:

————— EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD

**U**  
**E**  
**S**

Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



Kerr-McGee Oil & Gas Onshore LP

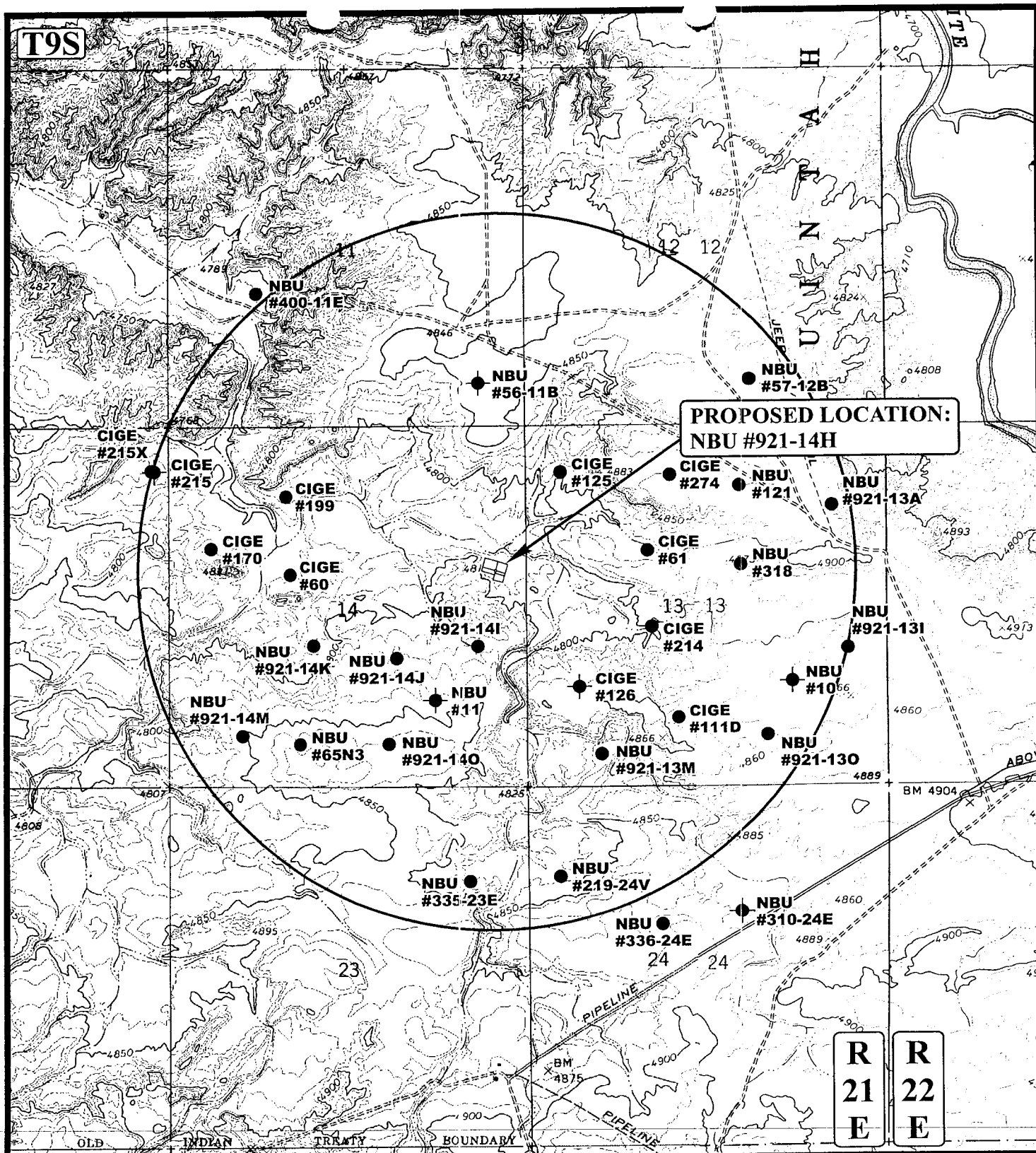
NBU #921-14H  
 SECTION 14, T9S, R21E, S.L.B.&M.  
 2088' FNL 422' FEL

TOPOGRAPHIC  
 MAP







01 23 06  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

**B**  
 TOPO



### LEGEND:

- |   |   |
|---|---|
|  DISPOSAL WELLS  |  WATER WELLS           |
|  PRODUCING WELLS |  ABANDONED WELLS       |
|  SHUT IN WELLS   |  TEMPORARILY ABANDONED |

# ULIS

**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

## Kerr-McGee Oil & Gas Onshore LP

**NBU #921-14H**  
**SECTION 14, T9S, R21E, S.L.B.&M.**  
**2088' FNL 422' FEL**

# TOPOGRAPHIC MAP

01	23	07
MONTH	DAY	YEAR

SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 00-00-00
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**C**  
**TOPO**

**D**  
**TOPO**

# Kerr-McGee Oil & Gas Onshore LP

NBU #921-14H

PIPELINE ALIGNMENT

LOCATED IN UTAH COUNTY, UTAH

SECTION 14, T9S, R21E, S.L.B.&M.

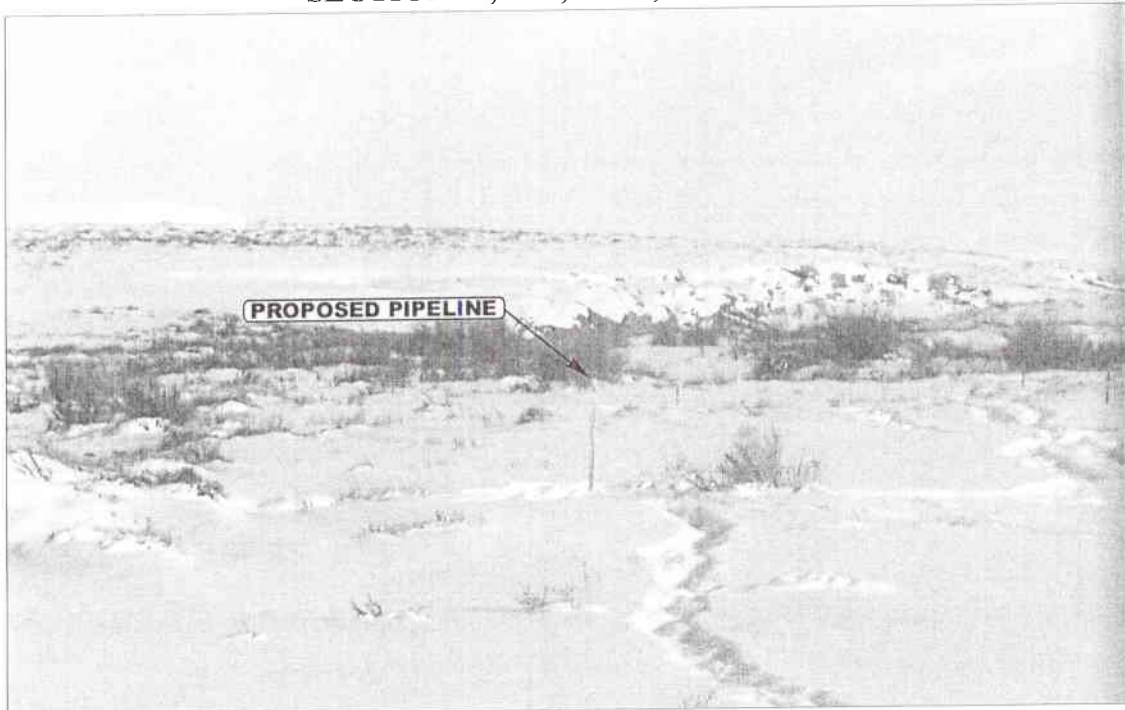


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY



- Since 1964 -

Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

01 23 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: L.K.

REVISED: 00-00-00

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

## LOCATION LAYOUT FOR

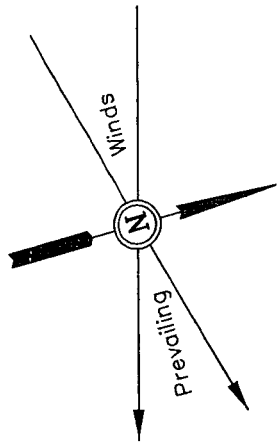
NBU #921-14H

SECTION 14, T9S, R21E, S.L.B.&M.

C-1.8' 2088' FNL 422' FEL  
El. 81.0'

Proposed Access Road

C-0.9'  
El. 80.1'

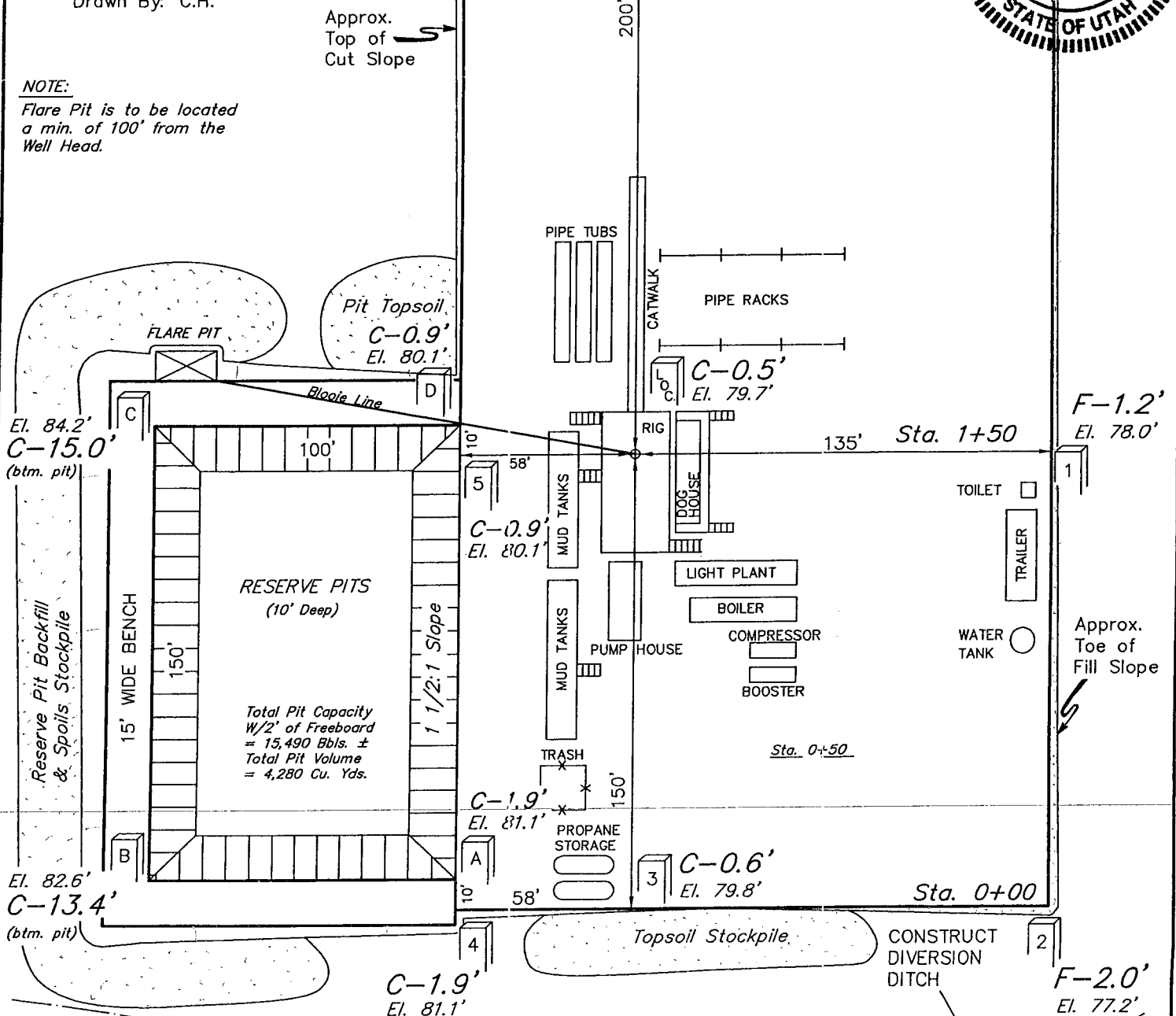
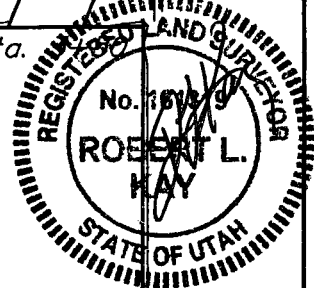


SCALE: 1" = 50'  
DATE: 01-24-06

Drawn By: C.H.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 4779.7'

FINISHED GRADE ELEV. AT LOC. STAKE = 4779.2'

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

NBU #921-14H

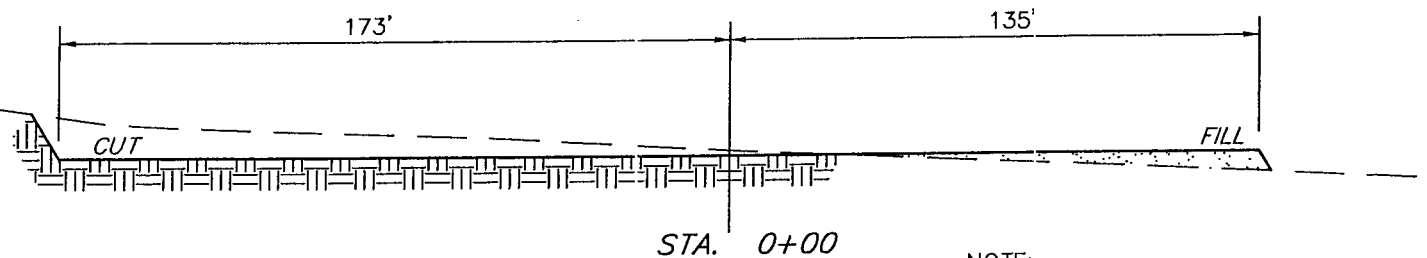
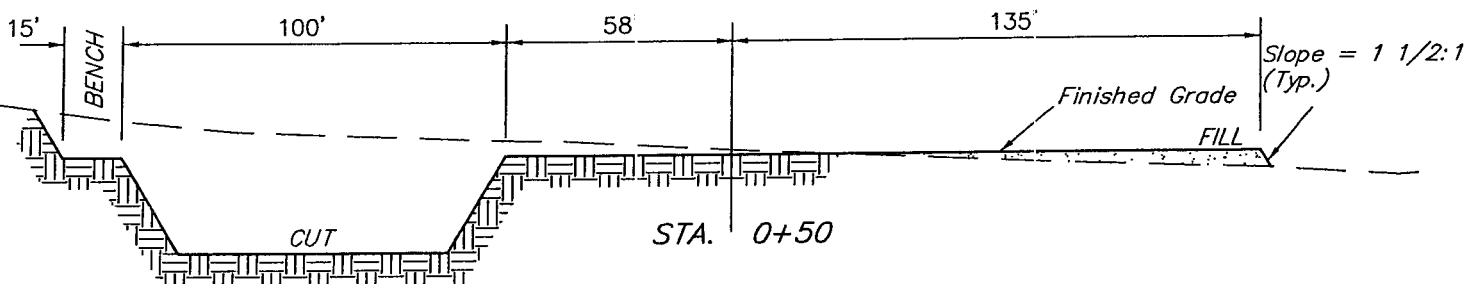
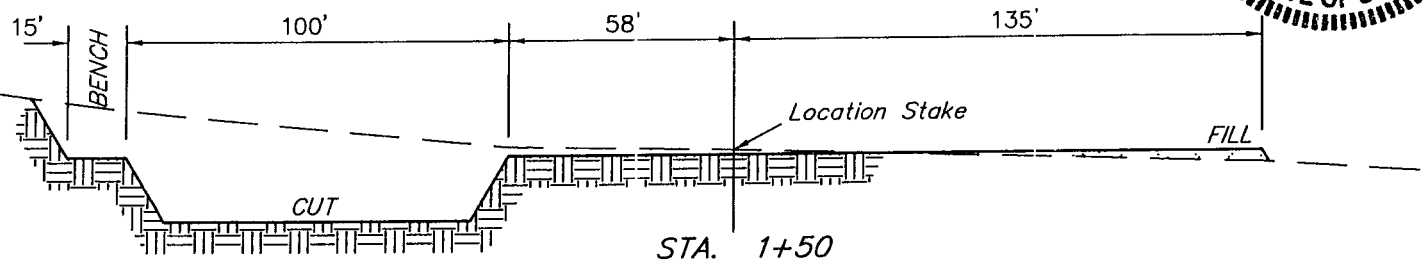
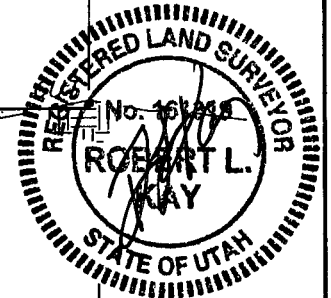
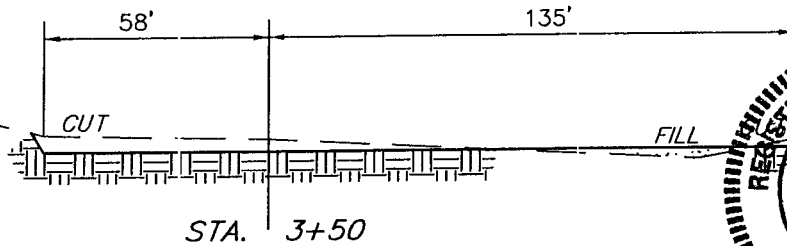
SECTION 14, T9S, R21E, S.L.B.&M.

2088' FNL 422' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 01-24-06  
Drawn By: C.H.

Preconstruction  
Grade



### NOTE:

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 3,500 Cu. Yds.  
Remaining Location = 5,940 Cu. Yds.  
  
TOTAL CUT = 9,440 CU.YDS.  
FILL = 2,590 CU.YDS.

EXCESS MATERIAL = 6,850 Cu. Yds.  
Topsoil & Pit Backfill = 5,640 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 1,210 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/23/2007

API NO. ASSIGNED: 43-047-39251

WELL NAME: NBU 921-14H

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

SENE 14 090S 210E

SURFACE: 2088 FNL 0422 FEL

BOTTOM: 2088 FNL 0422 FEL

COUNTY: Uintah

LATITUDE: 40.03759 LONGITUDE: -109.5104

UTM SURF EASTINGS: 627090 NORTHINGS: 4432782

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01193

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0005239 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. 43-8496 )

☒ RDCC Review (Y/N)

(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: NATURAL BUTTES

\_\_\_ R649-3-2. General

Siting: 460' From Qtr/Qtr & 920' Between Wells

\_\_\_ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-94

Siting: 460' to 480' & uncomm. Tract

\_\_\_ R649-3-11. Directional Drill

COMMENTS: Sop. Separate Site

STIPULATIONS: 1. Surface Agreement  
2. Oil Shale



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

April 25, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-39237	NBU 921-8B	Sec 08 T09S R21E 0528 FNL 2080 FEL
43-047-39238	NBU 921-8H	Sec 08 T09S R21E 1870 FNL 0837 FEL
43-047-39239	NBU 921-8P	Sec 08 T09S R21E 0533 FSL 0578 FEL
43-047-39240	NBU 921-9K	Sec 09 T09S R21E 2633 FSL 2383 FWL
43-047-39241	NBU 921-9C	Sec 09 T09S R21E 0896 FNL 1569 FWL
43-047-39254	NBU 921-16P	Sec 16 T09S R21E 0537 FSL 0610 FEL
43-047-39255	NBU 921-18D	Sec 18 T09S R21E 0550 FNL 0827 FWL
43-047-39256	NBU 921-21L	Sec 21 T09S R21E 1785 FSL 0797 FWL
43-047-39242	NBU 921-10H	Sec 10 T09S R21E 1472 FNL 1104 FEL
43-047-39243	NBU 921-13H	Sec 13 T09S R21E 2323 FNL 0531 FEL
43-047-39244	NBU 921-13E	Sec 13 T09S R21E 1818 FNL 0851 FWL
43-047-39245	NBU 921-13LT	Sec 13 T09S R21E 1465 FSL 0792 FWL
43-047-39246	NBU 921-14B	Sec 14 T09S R21E 0822 FNL 1764 FEL
43-047-39247	NBU 921-14D	Sec 14 T09S R21E 0465 FNL 0542 FWL
43-047-39248	NBU 921-14P	Sec 14 T09S R21E 0878 FSL 1163 FEL
43-047-39249	NBU 921-14A	Sec 14 T09S R21E 1239 FNL 0883 FEL
43-047-39250	NBU 921-14G	Sec 14 T09S R21E 2319 FNL 1996 FEL
43-047-39251	NBU 921-14H	Sec 14 T09S R21E 2088 FNL 0422 FEL
43-047-39252	NBU 921-15E	Sec 15 T09S R21E 2184 FNL 0636 FWL
43-047-39253	NBU 921-15L	Sec 15 T09S R21E 2015 FSL 0713 FWL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:4-25-07



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

April 26, 2007

Kerr McGee Oil and Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: Natural Buttes Unit 921-14H Well, 2088' FNL, 422' FEL, SE NE, Sec. 14,  
T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39251.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office

Operator: Kerr McGee Oil and Gas Onshore LP  
Well Name & Number Natural Buttes Unit 921-14H  
API Number: 43-047-39251  
Lease: UTC -01193

Location: SE NE Sec. 14 T. 9 South R. 21 East

#### Conditions of Approval

##### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

##### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office  
(801) 733-0983 home

##### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

RECEIVED  
VERNAL FIELD OFFICE

2007 APR 19 AM 11:58

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000


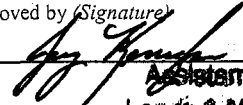
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-01193</b>	
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>TRIBAL SURFACE</b>	
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UNIT #891008900A</b>	
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>		8. Lease Name and Well No. <b>NBU 921-14H</b>	
3b. Phone No. (include area code) <b>(435) 781-7024</b>		9. API Well No. <b>43 047 39251</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SE/NE 2088'FNL, 422'FEL</b> At proposed prod. Zone		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>	
14. Distance in miles and direction from nearest town or post office* <b>20.8 +/- MILES FROM OURAY, UTAH</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 14, T9S, R21E</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>422'</b>		12. County or Parish <b>UINTAH</b>	
16. No. of Acres in lease <b>1920.00</b>		13. State <b>UTAH</b>	
17. Spacing Unit dedicated to this well <b>40.00</b>			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>		20. BLM/BIA Bond No. on file <b>RLB0005239 WYB000291</b>	
19. Proposed Depth <b>9930'</b>			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4780'GL</b>		23. Estimated duration <b>TO BE DETERMINED</b>	
22. Approximate date work will start* <b>UPON APPROVAL</b>			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office. | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>4/18/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>JERRY KEWICKA</b>	Date <b>3-7-2008</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

UDOGN

NOTICE OF APPROVAL

RECEIVED

MAR 17 2008

DIV. OF OIL, GAS & MINING

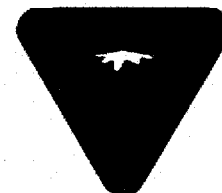
NO NOS

076XJ4038A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr-McGee O&G Onshore, LP. Location: SENE, Sec 14, T9S, R21E  
Well No: NBU 921-14H Lease No: UTU-01193  
API No: 43-047-39251 Agreement Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

***Surface COAs:***

Additional Stipulations:

- None

General Conditions of Approval

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

***DOWNHOLE CONDITIONS OF APPROVAL (COAs):***

**SITE SPECIFIC DOWNHOLE COAs:**

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from

KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL**

5. Lease Serial No.

**UTU-01193**

6. If Indian, Allottee or Tribe Name

**TRIBAL SURFACE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 921-14H**

9. API Well No.

**4304739251**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>DOGM APD</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>EXTENSION</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR AN ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION, SO THE DRILLING OPERATIONS MAY BE COMPLETED.

THE ORIGINAL APD WAS APPROVED BY THE **Utah Division of Oil, Gas and Mining** ON APRIL 26, 2007.

**COPY SENT TO OPERATOR**

Date: **5-16-2008**

Initials: **KS**

Date: **05-05-08**

By: **[Signature]**

**RECEIVED**

**MAY 02 2008**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**SENIOR LAND ADMIN SPECIALIST**

Signature

Date

**April 22, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304739251  
**Well Name:** NBU 921-14H  
**Location:** SE/NE SEC. 14, T9S, R21E  
**Company Permit Issued to:** KERR McGEE OIL & GAS ONSHORE LP  
**Date Original Permit Issued:** 4/26/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

4/22/2008

Date

Title: SENOIR LAND ADMIN SPECIALIST

Representing: KERR-McGEE OIL & GAS ONSHORE LP

RECEIVED

MAY 02 2008

DIV. OF OIL, GAS & MINING

# DIVISION OF OIL, GAS AND MINING

## ***SPUDDING INFORMATION***

Name of Company: Kerr-McGee Oil & Gas Onshore, LP

Well Name: NBU 921-14H

API No: 43-047-39251 Lease Type: Federal/Indian

Section 14 Township 09S Range 21E County Uintah

Drilling Contractor Pete Martin Drilling Rig # Rathole

### **SPUDDED:**

Date 7-02-08

Time 7:00 AM

How Dry

***Drilling will Commence:*** \_\_\_\_\_

Reported by Lew Weldon

Telephone # 435-781-7060

Date 7-03-08 Signed RM

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739251	NBU 921-14H		SENE	14	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	7/2/2008		7/14/08		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSMVB</i> SPUD WELL LOCATION ON 07/02/2008 AT 0700 HRS							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

7/8/2008

Title

Date

RECEIVED

JUL 08 2008

(5/2000)

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL**

5. Lease Serial No.

**UTU-01193**

6. If Indian, Allottee or Tribe Name

**TRIBAL SURFACE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 921-14H**

9. API Well No.

**4304739251**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>WELL SPUD</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

**MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.**

**SPUD WELL LOCATION ON 07/02/2008 AT 0700 HRS**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**SENIOR LAND ADMIN SPECIALIST**

Signature

Date

**July 8, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**RECEIVED**

**JUL 11 2008**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL**

5. Lease Serial No.

**UTU-01193**

6. If Indian, Allottee or Tribe Name

**TRIBAL SURFACE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 921-14H**

9. API Well No.

**4304739251**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>SET SURFACE</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>CSG</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PROPETRO AIR RIG ON 07/07/2008. DRILLED 12 1/4" SURFACE HOLE TO 2760'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/250 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/ 200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 16 +/- BBL LEAD CMT TO PIT. RAN 200' OF 1" PIPE, CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/75 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**REGULATORY ANALYST**

Signature

Date

**July 14, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**RECEIVED**

**JUL 17 2008**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL**

5. Lease Serial No.

**UTU-01193**

6. If Indian, Allottee or Tribe Name

**TRIBAL SURFACE**

7. If Unit or CA/Agreement, Name and/or No.

**UNIT #891008900A**

**NATURAL BUTTES UNIT**

8. Well Name and No.

**NBU 921-14H**

9. API Well No.

**4304739251**

10. Field and Pool, or Exploratory Area

**NATURAL BUTTES**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>FINAL DRILLING OPERATIONS</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

FINISHED DRILLING FROM 2760' TO 9750' ON 07/23/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/480 SX PREM LITE II @11.2 PPG 3.13 YIELD. TAILED CMT W/1280 SX 50/50 POZ @ 14.3 PPG 1.31 YIELD. WASH LINES DROP PLUG & DISPLACE W/150 BBLS WATER W/CLAYSTAY & MAGNACIDE TO BUMP PLUG W/3000 PSI RELEASE PSI AND FLOATS HELD HAD MUD FLUSH TO SURFACE. JUST PRIOR TO LOSING FULL RETURNS 30 BBLS FROM BUMPING PLUG. WASH STACK AND HANG CSG W/75K TEST HANGER TO 5000 PSI TEST OK. ND BOPS. CLEAN PITS.

RELEASED ENSIGN RIG 12 ON 07/25/2008 AT 0400 HRS.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**REGULATORY ANALYST**

Signature

Date

**July 28, 2008**

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED

JUL 31 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

UTU-01193

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.

UNIT #891008900A  
NATURAL BUTTES UNIT

8. Well Name and No.

NBU 921-14H

9. API Well No.

4304739251

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH COUNTY, UTAH

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other PRODUCTION START-UP
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 08/16/2008 AT 9:30 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHEILA DUPCHEGO

Title

REGULATORY ANALYST

Signature

Date

August 18, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED  
AUG 20 2008

DIV. OF OIL, GAS & MINING

Wins No.: 94950

NBU 921-14H

## Well Operations Summary Long

Operator KERR MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 07/02/2008	GL 4,779	KB 4795	ROUTE
API 4304739251	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 40.03758 / -109.51109		Q-Q/Sect/Town/Range: SENE / 14 / 9S / 21E		Footages: 2,088.00' FNL 422.00' FEL	

## Wellbore: NBU 921-14H

MTD	TVD	PBMD	PBTVD
9,750	10,741		
EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	START DATE: 7/2/2008	AFE NO.: 2007709
	OBJECTIVE: DEVELOPMENT	END DATE: 7/26/2008	
	OBJECTIVE 2: VERTICAL WELL	DATE WELL STARTED PROD.: .	
	REASON: DRILL PROD HOLE	Event End Status: COMPLETE	

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / UI	07/02/2008	07/02/2008	07/02/2008	07/02/2008	07/02/2008	07/02/2008	07/02/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation	MD:
7/2/2008	SUPERVISOR: LEW WELDON							54
	7:00 - 16:00	9.00	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 0700 HR 7/2/08 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 12 BLM AND STATE NOTFIED OF SPUD	
7/7/2008	SUPERVISOR: LEW WELDON							720
	8:30 - 12:00	3.50	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 0830 HR 7/7/08 DA AT REPORT TIME	
7/8/2008	SUPERVISOR: LEW WELDON							1,530
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1120'	
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1530'	
7/9/2008	SUPERVISOR: LEW WELDON							2,310
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1920'	
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 2310'	
7/10/2008	SUPERVISOR: LEW WELDON							2,760
	0:00 - 14:00	14.00	DRLSUR	02		P	RIG T/D @ 2760' CONDITION HOLE 1HR	
	14:00 - 18:00	4.00	DRLSUR	05		P	TRIP DP OUT OF HOLE	
	18:00 - 21:00	3.00	DRLSUR	11		P	RUN 2716' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG	
	21:00 - 22:00	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 250 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRUOUT JOB + - 16 BBL LEAD CMT TO PIT	

Wins No.: 94950		NBU 921-14H				API No.: 4304739251	
	21:00 - 22:00	1.00	DRLSUR	15	P	CEMENT 1ST STAGE WITH 250 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRUOUT JOB + - 16 BBL LEAD CMT TO PIT	
	22:00 - 22:30	0.50	DRLSUR	15	P	1ST TOP JOB 100 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC	
	22:30 - 23:30	1.00	DRLSUR	15	P	2ND TOP JOB 75 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE	
	23:30 - 23:30	0.00	DRLSUR			NO VISIBLE LEAKS PIT 1/4 FULL WORT	
7/13/2008	<u>SUPERVISOR:</u> KENNETH GATHINGS					<u>MD:</u> 2,760	
	2:30 - 0:00	21.50	RDMO	01	E	P	RIG DOWN EQUIPMENT TO MOVE TO THE NBU 921-14H
7/14/2008	<u>SUPERVISOR:</u> KENNETH GATHINGS					<u>MD:</u> 2,760	
	0:00 - 6:00	6.00	RDMO	01	E	P	RIG DOWN EQUIPMENT TO MOVE
	6:00 - 14:30	8.50	RDMO	01	A	P	MOVE EQUIPMENT TO LOCATION
	14:30 - 0:00	9.50	RDMO	01	B	P	RIG UP EQUIPMENT / RAISE DERRICK
7/15/2008	<u>SUPERVISOR:</u> KENNETH GATHINGS					<u>MD:</u> 2,760	
	0:00 - 5:30	5.50	MIRU	01	B	P	RIG UP EQUIPMENT
	5:30 - 9:00	3.50	MIRU	13	A	P	NIPPLE UP / HOOK UP FLARE LINES - GAS BUSTER / FLOW LINES
	9:00 - 14:00	5.00	PRPSPD	13	C	P	PRESSURE TEST PIPE RAMS, UPPER & LOWER KELLY VALVES, FLOOR & DART VALVE, KILL LIONE & KILL LINE VALVES, CHOKE LINE & CHOKE LINE VALVES TO 5K PSI HIGH & 250 PSI LOW / FIX LEAKS AS NEEDED / CHANGE SEAL RING OUT ON CHOKE LINE / TEST HAND SLOW
	14:00 - 16:00	2.00	PRPSPD	12	E	Z	TEST TRUCK BROKE DOWN / WAIT ON TEST TRUCK FROM VERNAL
	16:00 - 20:00	4.00	PRPSPD	13	C	P	PRESSURE TEST BLIND RAMS, CHOKE LINES, CHOKE MANIFOLD VALVES TO 5K HIGH 7 250 PSI LOW / INNER CHOKE VALVE FAILED TEST / CONTINUE W CASING TEST TO 1500 PSI @ 30 MIN. / ORDER OUT NEW CHOKE VALVE
	20:00 - 0:00	4.00	PRPSPD	05	A	P	SAFETY MEETING / MIRU PICK UP EQUIPMENT / PICK UP B.H.A. + DRILL PIPE TO TAG
7/16/2008	<u>SUPERVISOR:</u> BRUCE TAYLOR					<u>MD:</u> 4,104	
	0:00 - 1:30	1.50	PRPSPD	05	A	P	PICK UP BHA + DRILL PIPE TO TAG @ 2653'

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NBU 921-14H

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1:30 - 2:00	0.50	PRPSPD	06	A	P	SERVICE RIG & EQUIPMENT
2:00 - 3:30	1.50	PRPSPD	07	C	Z	CHANGE OUT VALVE ON THE CHOKE MANIFOLD
3:30 - 4:30	1.00	PRPSPD	08	E	P	PRE-SPUD INSPECTION
4:30 - 5:00	0.50	PRPSPD	13	B		INSTALL ROTATING HEAD
5:00 - 7:00	2.00	PRPSPD	02	F	P	DRILL CEMENT & FLOAT EQUIPMENT / TEST CHOKE MANIFOLD VALVE WHILE DRILLING CEMENT & F.E. (TESTER LATE)
7:00 - 8:30	1.50	DRLPRO	02	B	P	DRILL 2730'-2892' (162') 108'/HR. 15/18K WOB, 110 BIT RPM, 8.4/28
8:30 - 9:00	0.50	DRLPRO	09	A	P	SURVEY @ 2851' - 1.71 DEG.
9:00 - 12:00	3.00	DRLPRO	02	B	P	DRILL 2892'-3176' (284') 94.6'/hr. 14/16K WOB, 110 BIT RPM, 8.8/30
12:00 - 12:30	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION PIPE RAMS.
12:30 - 21:00	8.50	DRLPRO	02	B	P	DRILL 3176'-3868' (692') 81.4'/HR. 16K WOB, 110 BIT RPM, 9.0/32
21:00 - 21:30	0.50	DRLPRO	09	A	P	SURVEY @ 3793' - 3.18 DEG.
21:30 - 0:00	2.50	DRLPRO	02	B	P	DRILL 3868'-4104' (236') 94.4'/HR. 16K WOB, 110 BIT RPM, 9.1/32

7/17/2008

SUPERVISOR: BRUCE TAYLOR

MD: 5,624

0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILL 4104'-4130' (26')
0:30 - 1:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION PIPE RAMS, CHECK COM
1:00 - 6:30	5.50	DRLPRO	02	B	P	DRILL 4130'-4683' (553') 100.5'/HR. 14/16K WOB, 10 BIT RPM, 9.3/35
6:30 - 7:00	0.50	DRLPRO	09	A	P	SURVEY @ 4642' - 3.11 DEG.
7:00 - 16:30	9.50	DRLPRO	02	B	P	DRILL 4683'-5248' (565') 14/16K WOB, 110 BIT RPM, 9.3/36
16:30 - 17:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION PIPE RAM.
17:00 - 0:00	7.00	DRLPRO	02	B	P	DRILL 5248'-5624' (376') 53.7'/HR. 14/16K WOB, 110 BIT RPM, 9.4/38

Wins No.: 94950		NBU 921-14H					API No.: 4304739251
	17:00 - 0:00	7.00	DRLPRO	02	B	P	DRILL 5248'-5624' (376') 53.7'/HR. 14/16K WOB, 110 BIT RPM, 9.4/38
7/18/2008	SUPERVISOR: BRUCE TAYLOR						MD: 6,741
	0:00 - 0:30	0.50	DRLPRO	06	A	P	SERVICE RIG,
	0:30 - 1:30	1.00	DRLPRO	02	B	P	DRILL 5624'-5687' (63')
	1:30 - 2:00	0.50	DRLPRO	09	A	P	SURVEY @ 5612' - 3.8 DEG.
	2:00 - 11:30	9.50	DRLPRO	02	B	P	DRILL 5687'-6223' (536') 56.4'/HR. 14/16K WOB, 110 BIT RPM, 9.7/42
	11:30 - 12:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION COM
	12:00 - 20:00	8.00	DRLPRO	02	B	P	DRILL 6223'-6634' (411') 51.3'/HR. 16K WOB, 110 BIT PRM, 9.9/44
	20:00 - 20:30	0.50	DRLPRO	09	A	P	SURVEY @ 6558' - 4.4 DEG.
	20:30 - 0:00	3.50	DRLPRO	02	B	P	DRILL 6634'-6741' (107') 39.5'/HR. 12K WOB, 110 BIT RPM, 9.9/42, RUNING LIGHT BIT WT. FOR DEVIATION.
7/19/2008	SUPERVISOR: BRUCE TAYLOR						MD: 7,100
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILL 6741'-6759' (18')
	0:30 - 1:00	0.50	DRLPRO	06	A	P	SERVICE RIG, CHECK COM & DL.
	1:00 - 6:30	5.50	DRLPRO	02	B	P	DRILL 6759'-6885' (126') 22.9'/HR. 12/14K WOB, 110 BIT RPM, 10.0/44
	6:30 - 7:30	1.00	DRLPRO	04	C	P	CIRCULATE BOTTOMS UP, MIX AND PUMP SLUG, DROP SURVEY.
	7:30 - 14:30	7.00	DRLPRO	05	A	P	POOH FOR BIT #2 DUE TO SLOW P-RATE. WORK THROUGH TIGHT SPOTS, JAR PIPE LOOSE AT 4947', CIRC. AND BACK REAM THROUGH TIGHT SPOTS FROM 4947'-4726'. FINISH OUT OF HOLE. INSTALL WEAR BUSHING.
	14:30 - 20:00	5.50	DRLPRO	05	A	P	MAKE UP NEW Q506 PDC AND TIH WITH SAME.
	20:00 - 0:00	4.00	DRLPRO	02	B	P	DRILL 6885'-7100' (215') 53.7'/HR. 14K WOB, 110 BIT RPM, 10.2/44
7/20/2008	SUPERVISOR: BRUCE TAYLOR						MD: 8,110
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILL 7100'-7135' (35')

Wins No.: 94950		NBU 921-14H						API No.: 4304739251
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILL 7100'-7135' (35')	
	0:30 - 1:00	0.50	DRLPRO	06	A	P	SERVICE RIG,	
	1:00 - 13:30	12.50	DRLPRO	02	B	P	DRILL 7135'-7637' (502') 40.1'/HR. 14/16K WOB, 110 BIT RPM, 10.5/44	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION HHCR, CHECK COM.	
	14:00 - 0:00	10.00	DRLPRO	02	B	P	DRILL 7637'-8110' (473') 47.3'/HR. 18/20K WOB, 110 BIT RPM, 10.6/44	
7/21/2008	SUPERVISOR: BRUCE TAYLOR							MD: 8,602
	0:00 - 0:30	0.50	DRLPRO	06	A	P	SERVICE RIG	
	0:30 - 13:30	13.00	DRLPRO	02	B	P	DRILL 8110'-8549' (439') 33.7'/HR. 18/20K WOB, 10 BIT RPM, 11.0/44	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SERVICE RIG. FUNCTION PIPE RAMS	
	14:00 - 17:00	3.00	DRLPRO	02	B	P	DRILL 8549'-8602' (53') 17.6'/HR. 20/22K WOB, 110 BIT RPM. 11.0/44.	
	17:00 - 18:00	1.00	DRLPRO	04	C	P	CIRCULATE BOTTOM UP, MIX AND PUMP SLUG, DROP TOTCO SURVEY.	
	18:00 - 23:30	5.50	DRLPRO	05	A	P	POOH FOR BIT #3 DUE TO SLOW P-RATE.	
	23:30 - 0:00	0.50	DRLPRO	05	A	P	MAKE UP NEW Q506 AND START IN THE HOLE.	
7/22/2008	SUPERVISOR: BRUCE TAYLOR							MD: 9,170
	0:00 - 4:30	4.50	DRLPRO	05	A	P	TIH WITH NEW BIT.	
	4:30 - 5:00	0.50	DRLPRO	03	D	P	WASH AND REAM 30' TO BOTTOM. LOST 83 BBLs OF MUD ON THIS TRIP. PULL SHAKER SCREEN AND INCREASE LCM TO 5% IN SYSTEM.	
	5:00 - 15:30	10.50	DRLPRO	02	B	P	DRILL 8602'-8861' (259') 24.6'/HR. 16/20K WOB, 100 BIT RPM, 11.0/44	
	15:30 - 16:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION PIP4 RAMS, CHECK COM.	
	16:00 - 0:00	8.00	DRLPRO	02	B	P	DRILL 8861'-9170' (309') 38.6'/HR. 18/20K WOB, 100 BIT RPM, 11.2/45	
7/23/2008	SUPERVISOR: BRUCE TAYLOR							MD: 9,750

0:00 - 4:00	4.00	DRLPRO	02	B	P	DRILL 9170'-9302' (132') 33'/HR. 18/20K WOB, 100 BIT RPM, 11.2/44
4:00 - 4:30	0.50	DRLPRO	06	A	P	SERVICE RIG
4:30 - 13:30	9.00	DRLPRO	02	B	P	DRILL 9302'-9586' (284') 31.5'/HR. 18/20K WOB, 100 BIT RPM, 11.4/44
13:30 - 14:00	0.50	DRLPRO	06	A	P	SERVICE RIG, FUNCTION ANNULAR, CHECK COM.
14:00 - 18:00	4.00	DRLPRO	02	B	P	DRILL 9586'-9750' (164') 41'/HR. 18/20K WOB, 100 BIT RPM, 11.4/46
18:00 - 20:00	2.00	DRLPRO	04	C	P	CIRCULATE AND RAISE MW TO 11.5 PPG TO CONTROL GAS PRIOR TO SHORT TRIP.
20:00 - 22:30	2.50	DRLPRO	05	E	P	POOH, WORK THROUGH TIGHT SPOTS FROM 6563' TO 6343'.
22:30 - 0:00	1.50	DRLPRO	04	A	X	CIRCULATE BOTTOMS UP, WASH AND BACK REAM FROM 6404' TO 6174' (LAYED DOWN JTS. W. KELLY)

7/24/2008

SUPERVISOR: BRUCE TAYLOR

MD: 9,750

0:00 - 1:30	1.50	DRLPRO	03	A	X	BACK REAM TIGHT HOLE FROM 6333'-6404' PUMPING JOINTS OUT WITH KELLY TILL FREE. SLUG PIPE.
1:30 - 3:00	1.50	DRLPRO	05	A	P	POOH TO CASING SHOE, WORKED PIPE THROUGH TIGHT SPOT AT 4950'
3:00 - 4:30	1.50	DRLPRO	06	D	P	SLIP AND CUT 110' DRILL LINE.
4:30 - 6:30	2.00	DRLPRO	05	E	P	FINISH OUT OF HOLE.
6:30 - 10:30	4.00	DRLPRO	05	E	P	MAKE UP TRI CONE BIT AND TIH WITH SAME.
10:30 - 14:30	4.00	DRLPRO	03	A	X	WASH AND REAM TIGHT SPOTS FROM 6360' TO 6537'. RAISE VIS TO 50, MW TO 11.6 PPG AND LCM TO 12% TO CONTROL LOSSES. (LOST 120 BBLs)
14:30 - 16:00	1.50	DRLPRO	05	E	P	TIH, WORK THROUGH TIGHT SPOTS AT 6948' & 7365', FINISH IN HOLE.
16:00 - 17:00	1.00	DRLPRO	03	E	P	WASH 45' TO BOTTOM, 17' PACKED FILL ON BOTTOM. TRIP GAS 5920 UNITS WITH 20-25' FLARE.

Wins No.: 94950		NBU 921-14H					API No.: 4304739251
	17:00 - 20:30	3.50	DRLPRO	04	C	P	CIRCULATE BOTTOM UP, RAISE MW TO 11.7 PPG AND VIS TO 50, LCM TO 12% . LOST FULL RETURNS WHILE PUMPING SLUG. HELD SAFETY MEETING WITH LAY DOWN CREW AND RIG UP SAME.
	20:30 - 0:00	3.50	DRLPRO	05	B	P	POOH LAYING DOWN DRILL STRING. NUMEROUS PULLS TO 50K OVER STRING UP TO 9300'.
7/25/2008	SUPERVISOR: BRUCE TAYLOR						MD: 9,750
	0:00 - 8:00	8.00	EVALPR	05	B	P	POOH LDDS, BREAK KELLY, LD BHA. PULL WEAR BUSHING.
	8:00 - 9:00	1.00	CSG	11	A	P	HELD SAFETY MEETING WITH ROCKY MOUNTAIN, RIG UP SAME.
	9:00 - 17:00	8.00	CSG	11	B	P	RUN CSG. AS FOLLOWS: FLOAT SHOE, 1 JT. CSG. FLOAT COLLAR, 112 JTS. CSG. 1 MARKER JTS. SET AT 5006.19, 118 JTS. 4 1/2" 11.6 PPF I-80 CSG. OVER ALL LENGTH 9739' SET AT 9739'. CENTRALIZED WITH 15 BOW SPRINGS, 1 ON FIRST 3 JTS. THEN EVERY 3RD JT. SPACE OUT, INSTALL HANGER JOINT AND PLUG RETAINER.
	17:00 - 18:00	1.00	CSG	11	B	P	SPACE OUT, INSTALL HANGER AND PLUG RETAINER.
	18:00 - 19:30	1.50	CSG	04	E	P	CIRCULATE BOTTOMS UP WITH RIG PUMP.
	19:30 - 22:30	3.00	CSG	15	A	P	SWITCH TO HOWCO, TEST LINES TO 5000 PSI AND CEMENT 4 1/2" AS FOLLOWS: 10 BBLs WATER, 20 BBLs MUD FLUSH @ 8.3 PPG, 20 SKS PL2 SCAVENGER MIXED @ 9.5 PPG, LEAD W/ 460 SKS PL2 MIXED @ 11.2 PPG, TAIL W/ 1280 SKS 50:50 POZ MIXED @ 14.3 PPG, WASH LINES, DROP PLUG & DISPLACE W/150 BBLs WATER W/ CLAYSTAY & MAGNACIDE TO BUMP PLUG W/ 3000 PSI. RELEASE PSI AND FLOATS HELD. HAD MUD FLUSH AND SCAVENGER STRINGERS TO SURFACE JUST PRIOR TO LOSING FULL RETURNS 30 BBLs FROM BUMPING THE PLUG.
	22:30 - 23:30	1.00	CSG	13	C	P	WASH STACK AND HANG CASING WITH 78K, TEST HANGER TO 5000 PSI, TEST OK,
	23:30 - 0:00	0.50	CSG	13	A	P	ND BOP'S.
7/26/2008	SUPERVISOR: BRUCE TAYLOR						MD: 9,750
	0:00 - 4:00	4.00	MAINT	13	A	P	CLEAN MUD TANKS, RELEASE RIG @ 04:00 AM ON 7-26-08

<b>Wins No.: 94950</b>		<b>NBU 921-14H</b>		<b>API No.: 4304739251</b>			
<b>EVENT INFORMATION:</b>		EVENT ACTIVITY: COMPLETION		START DATE: 8/7/2008			
		OBJECTIVE: DEVELOPMENT		END DATE: 8/12/2008			
		OBJECTIVE 2: ORIGINAL		DATE WELL STARTED PROD.:			
		REASON: MV		Event End Status: COMPLETE			
<b>RIG OPERATIONS:</b>		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start		
					Finish Drilling		
					Rig Release		
					Rig Off Location		
MILES-GRAY 1 / 1		08/07/2008			08/13/2008		
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
8/7/2008	<u>SUPERVISOR:</u> JD FOREMAN <span style="float:right"><u>MD:</u></span>						
	7:00 - 7:30	0.50	COMP	48		P	SAFETY MEETING
	7:30 - 17:00	9.50	COMP	31	I	P	ROAD RIG TO LOC SPOT IN EQUIP RIG UP NIPPLE UP BOP TALLY & PICK UP 2,3/8 PICKED UP 305 JTS TAG @ 9690' CIRC CLEAN POOH LAY DOWN 30 JTS SDFN
8/8/2008	<u>SUPERVISOR:</u> JD FOREMAN <span style="float:right"><u>MD:</u></span>						
	7:00 - 7:30	0.50	COMP	48		P	SAFETY MEETING
	7:30 - 15:00	7.50	COMP	37		P	TEST CSG & FRAC VALVES TO 7500# GOOD TEST MIRU CUTTERS RIH W/ 3,3/8 GUNS 23 GM .36 HOLES PERF @ 9588'-90' 4 SPF 9600'-04' 4 SPF 9648'-52' 4 SPF NO BLOW SDFWE
8/11/2008	<u>SUPERVISOR:</u> JD FOREMAN <span style="float:right"><u>MD:</u></span>						
	7:00 - 7:30	0.50	COMP	48		P	SAFETY MEETING
	7:30 - 18:00	10.50	COMP	36		P	MIRU WEATHERFORD & CUTTERS FRAC STAGE #1 BRK PERF @ 3498# INJ RT 50.7 BPM INJ PSI 4400# ISIP 2625# FG .73 FRAC W/ 73412# 30/50 SAND + 5000# RESIN COATED SAND + 2127 BBL SLICK WATER MP 7317# MR 51.2 BP AP 4282# AR 50.8 BPM ISIP 2845# FG .74 NPI 220#  STAGE #2 RIH SET 8K CBP @ 9452' PERF @ 9220'-22' 4 SPF 9304'-06' 4 SPF 9344'-46' 4 SPF 9388'-90' 4 SPF 9420'-22' 4 SPF BRK PERF @ 3288# INJ RT 40.7 BPM INJ PSI 4150# ISIP 2750# FG .74 FRAC W/ 179937# 30/50 SAND + 5000# RESIN COATED SAND + 4509 BBL SLICKWATER MP 4859# MR 43.5 BPM AP 3955# AR 40.8 BPM ISIP 2844# FG .75 NPI 94#  STAGE #3 RIH SET 8K CBP @ 8832# PERF @ 8732'-02' 4 SPF BRK PERF @ 2829# INJ RT 50.7 BPM INJ PSI 4417# ISIP 2373# FG .71 FRAC W/ 29019# 30/50 SAND + 5000# RESIN COATED SAND + 951 BBL SLICKWATER MP 4612# MR 51.2 BPM AP 4261# AR 50.8 BPM ISIP 2784# FG .76 NPI 411#  STAGE # 4 RIH SET 8K CBP @ 8482' PERF @ 8278'-84' 4 SPF 8446'-52' 4 SPF BRK PERF @ 3759# INJ RT 50.5 BPM INJ PSI 4500# ISIP 2183# FG .67 FRAC W/ 68036# 30/50 SAND + 5000# RESIN COATED SAND + 1854# SLICKWATER MP 4743# MR 51.9 BPM AP 4231# AR 50.6 BPM ISIP 2534# FG .76 NPI 451#  STAGE # 5 RIH SET 8K CBP @ 8212' PERF @ 8098'-8100' 4 SPF8150'-52' 4 SPF 8176'-82' 4 SPF BAK PERF @ 2866# INJ RT 51 BPM INJ PSI 4000# ISIP 2502# FG .75 FRAC W/47975# 30/50 SAND + 5000# RESIN COATED SAND + 1387 BBL SLICKWATER MP 4455# MR 51.1 BPM AP 3944# AR 50.9 BPM ISIP 2689# FG .77 NPI 187#  STAGE #6 RIH SET 8K CBP @ 8020' PERF @ 7822'-28' 4 SPF 7986'-90' 4 SPF BRK PERF @ 2587# INJ RT 50.5 BPM INJ PSI 3850# ISIP 1766# FG .67 FRAC W/ 52885# 30/50 SAND + 5000# RESIN COATED SAND + 1423 BBL SLICKWATER MP 436# MR 50.9 BPM AP 3601# AR 50.7 BPM ISIP 2337# FG .74 NPI 571# RIH SET 8K CBP @ 7772' RIH DOWN WEATHERFODR & CUTTERS SDFN
8/12/2008	<u>SUPERVISOR:</u> JD FOREMAN <span style="float:right"><u>MD:</u></span>						
	7:00 - 7:30	0.50	COMP	48		P	SAFETY MEETING

Wins No.: 94950		NBU 921-14H				API No.: 4304739251	
7:30	- 18:00	10.50	COMP	31	P	NIPPLE DOWN FRAC VALAES NIPPLE UP BOP RIH TAG CBP @ 7772' RIG UP DRILG EQUIP BRK CIRC DRILL CBP @ 7772' 800# KICK RIH TAG @ 7990' 30' SAND ON PLUG DRILL OUT SAND & CBP @ 8020' 300# KICK RIH TAG @ 8180' 30' SAND ON CBP DRILL OUT SAND & CBP @ 8212' 100# KICK RIH TAG @ 8452' 30' SAND ON CBP DRILL OUT SAND & CBP @ 8482' 500# KICK RIH TAG @ 8800' 30' SAND ON CBP DRILL OUT SAND & CBP @ 8832' 800# KICK RIH TAG @ 9422' 30' SAND ON CBP DRILL OUT SAND & CBP @ 9452' 800# KICK RIH TAG @ 9650' CLEAN OUT FILL TO 9690' CIRC CLEAN PULL & LAY DOWN 26 JTS 2,3/8 LAND ON WELL HEAD W/ 289 JTS 2,3/8 L-80 TBG EOT 9176.16' NIPPLE DOWN BOP NIPPLE UP TREE PUMP OFF BIT TRUN WELL TO FLOW BACK CREW SDFN  TBG DETAIL KB 14.00 HANGER .83 289 JTS 2,3/8 L-80 TBG 9159.13 XN-NIPPLE 1.875 2.20 EOT 9176.16 RETURN TO YARD 28 JTS ( 891.80')	
8/13/2008	SUPERVISOR: JD FOREMAN					MD:	
7:00	-			33	A	7 AM FLBK REPORT: CP 1950#, TP 1950#, 16/64" CK, 60 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 2520 BBLS LEFT TO RECOVER: 9731	
8/13/2008	SUPERVISOR: JD FOREMAN					MD:	
7:00	- 7:30	0.50	COMP	48	P	SAFETY MEET	
7:30	- 15:00	7.50	COMP	31	P	RIG DOWN MOVE OUT	
15:00	- 15:00	0.00	COMP				
8/14/2008	SUPERVISOR: JD FOREMAN					MD:	
7:00	-			33	A	7 AM FLBK REPORT: CP 2400#, TP 2200#, 16/64" CK, 45 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 3660 BBLS LEFT TO RECOVER: 8591	
8/15/2008	SUPERVISOR: JD FOREMAN					MD:	
7:00	-			33	A	7 AM FLBK REPORT: CP 2950#, TP 1950#, 20/64" CK, 20 BWPH, 45 SAND, TRACE GAS TTL BBLS RECOVERED: 4685 BBLS LEFT TO RECOVER: 7566	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

5. Lease Serial No.

UTU-01193

1a. Type of Well ☐ Oil Well ☒ Gas ☐ Dry Other  
b. Type of Completion: ☒ New ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

2. Name of Operator

KERR-MCGEE OIL &amp; GAS ONSHORE LP

3. Address

1368 SOUTH 1200 EAST, VERNAL, UTAH 84078

3a. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report locations clearly and in accordance with Federal requirements) \*

At surface

SE/NE 2088'FNL, 422'FEL

At top prod. interval reported below

At total depth

14. Date Spudded

07/02/08

15. Date T.D. Reached

07/23/08

16. Date Completed

☐ D & A ☒ Ready to Prod.  
08/16/08

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

7. Unit or CA Agreement Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 921-14H

9. API Well No.

4304739251

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Block and  
Survey or Area SEC. 14, T9S, R21E

12. County or Parish

UINTAH

13. State

UTAH

17. Elevations (DF, RKB, RT, GL)\*

4780'GL

18. Total Depth: MD 9750'  
TVD19. Plug Back T.D.: MD 9690'  
TVD20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

CBL-CCL-GR

22. Was well cored? ☒ No ☐ Yes (Submit copy)  
Was DST run? ☒ No ☐ Yes (Submit copy)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14"	36.7#		40'		28 SX			
12 1/4"	9 5/8"	36#		2760'		625 SX			
7 7/8"	4 1/2"	11.6#		9750'		1760 SX			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Set (MD)
2 3/8"	9176'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7822'	9652'	7822'-9652'	0.36	242	OPEN
B) WSMVD						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and type of Material
7822'-9652'	PMP 12,251 BBLs SLICK H2O & 481,264# 30/50 SD

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/16/08	08/18/08	24	→	0	1,851	600			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. 1897#	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Well Status	
15/64	SI	2782#	→	0	1851	600			PRODUCING GAS WELL

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Well Status	
	SI		→						

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SEP 11 2008

DIV. OF OIL, GAS &amp; MINING

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER MAHOGANY WASATCH MESAVERDE	1652' 2488' 5016' 7795'	7696' 9662'			

## 32. Additional remarks (include plugging procedure):

## 33. Circle enclosed attachments:

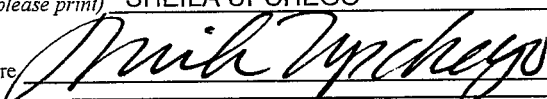
1. Electrical/Mechanical Logs (1 full set req'd.)      2. Geologic Report      3. DST Report      4. Directional Survey  
5. Sundry Notice for plugging and cement verification      5. Core Analysis      7. Other:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature



Date 09/08/08

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No  
UTU-01193

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

**SUBMIT IN TRIPLICATE** - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE LP

3a. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. (include area code)  
435 781 7024

7. If Unit of CA Agreement, Name and or No  
UNIT #891008900A

8. Well Name and No  
NBU 921-14H

9. API Well No  
4304739251

10. Field and Pool or Exploratory Area  
NATURAL BUTTES

4. Location of Well (Footage Sec., T, R, M., or Survey Description)

SE NE SEC 14 T9S R21E 2088FNL, 422FEL

11. Country or Parish, State  
UINTAH COUNTY, UTAH

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE WASATCH FORMATION. THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH FORMATION, ALONG WITH THE EXISTING MESAVERDE FORMATIONS.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

**COPY SENT TO OPERATOR**

Date: 2.24.2009

Initials: KS

**RECEIVED**

**FEB 09 2009**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

SHEILA UPCHEGO

Title: REGULATORY ANALYST

Signature

Date: 02/02/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Pet. Eng.

Date

2/17/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DOGm

Federal Approval Of This  
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\* Cause 173-14

**Name:** NBU 921-14H  
**Location:** SE NE Sec. 14 9S 21E  
**Uintah County, UT**  
**Date:** 01/22/09

**ELEVATIONS:** 4780 GL 4794 KB

**TOTAL DEPTH:** 9750 **PBTD:** 9696  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2730'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 9740'  
Marker Joint 4996-5017'

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1652' Green River  
1997' Birdsnest  
2488' Mahogany  
5016' Wasatch  
7795' Mesaverde

Estimated T.O.C. from CBL @800

**GENERAL:**

- A minimum of 15 tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Schlumbergers Induction-Density-Neutron log dated 08/01/08
- 5 fracturing stages required for coverage.
- Procedure calls for 6 CBP's (8000 psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, Slickwater frac.
- Maximum surface pressure 6200 psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump resin coated sand last 5,000# of all frac stages
- Tubing Currently Landed @~9176
- Originally completed on 08/11/08

**Existing Perforations:**

Zone	From	To	SPF	# of Shots
Mesaverde	7822	7828	4	24
Mesaverde	7986	7990	4	16
Mesaverde	8098	8100	4	8
Mesaverde	8150	8152	4	8
Mesaverde	8176	8182	4	24
Mesaverde	8278	8284	4	24
Mesaverde	8446	8452	4	24
Mesaverde	8792	8802	4	40
Mesaverde	9220	9222	4	8
Mesaverde	9304	9306	4	8
Mesaverde	9344	9346	4	8
Mesaverde	9388	9390	4	8
Mesaverde	9420	9422	4	8
Mesaverde	9588	9590	4	8
Mesaverde	9600	9604	4	16
Mesaverde	9648	9652	4	16

**PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOO H with 2-3/8", 4.7#, N-80 tubing (currently landed at ~9176'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7326 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7326 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 7276'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	7013	7014	4	4
WASATCH	7069	7071	4	8
WASATCH	7108	7112	4	16

WASATCH	7156	7158	4	8
WASATCH	7244	7246	4	8

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6993' and trickle 250gal 15%HCL w/ scale inhibitor in flush . Tight spacing between stages 1 & 2.

7. Set 8000 psi CBP at ~6979'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6780	6782	4	8
WASATCH	6840	6844	4	16
WASATCH	6873	6875	4	8
WASATCH	6947	6949	4	8

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6730' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~6720'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6564	6566	4	8
WASATCH	6606	6608	4	8
WASATCH	6630	6632	4	8
WASATCH	6686	6690	4	16

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6514' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6340'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6208	6210	4	8
WASATCH	6228	6230	4	8
WASATCH	6248	6252	4	16
WASATCH	6306	6310	3	12

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6158' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~5208'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5168	5178	4	40

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5118' and flush only with recycled water.

15. Set 8000 psi CBP at ~5118'.

16. TIH with 3 7/8" mill, pump-off sub, SN and tubing.

17. Mill plugs and clean out to PBTD. Land tubing at  $\pm 9190'$  and pump off bit unless indicated otherwise by the well's behavior. This well will be commingled at this time.

18. RDMO

19. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

**For design questions, please call  
Sarah Schaftenaar, Denver, CO  
(303)-895-5883 (Cell)  
(720)-929-6605 (Office)**

**For field implementation questions, please call  
Robert Miller, Vernal, UT  
4350781 7041 (Office)**

NOTES:

Fracturing Schedules  
 NEU 921-14H  
 Slickwater Frac

4719.6006  
 100.42811

Stage	Zone	Feet of Pay	Perfs Top, ft. Bot. ft.	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	VARATCH	2	7015 7014	4	4	Varied	Pump-in test			Slickwater	0	0						
	VARATCH	2	7008 7011	4	8	0	SP and 5 min ISIP			Slickwater	120	120	15.0%	0.0%	0	0		45
	VARATCH	5	7100 7112	4	16	50	Slickwater Pad	0.25	1.25	Slickwater	399	518	50.0%	39.7%	12,563	12,563		15
	VARATCH	5	7156 7156	4	0	50	Slickwater Ramp	1.25	2	Slickwater	279	798	35.0%	60.3%	19,053	31,616		25
	VARATCH	15	7244 7242	4	8	50	Slickwater Ramp			Slickwater	109	906				31,616		0
	VARATCH	8	No perf			50	Flush (4-1/2")											45
	VARATCH	15	No perf				ISDP and 5 min ISDP											
		31	# of Perforstage	44		18.8	<< Above pump time (min)				Flush depth	6993			geth 1,000 CBP depth	944	lbs sand ft	131
2	VARATCH	3	6798 6792	4	8	Varied	Pump-in test			Slickwater	0	0						
	VARATCH	5	6802 6804	4	16	0	SP and 5 min ISIP			Slickwater	67	67	15.0%	0.0%	0	0		8
	VARATCH	2	6872 6872	4	8	50	Slickwater Pad	0.25	1.25	Slickwater	223	290	50.0%	39.7%	7,031	7,031		14
	VARATCH	2	6947 6949	4	8	50	Slickwater Ramp	1.25	2	Slickwater	156	446	35.0%	60.3%	10,664	17,695		0
	VARATCH	2	No perf			50	Flush (4-1/2")				105	551				17,695		44
	VARATCH	6					ISDP and 5 min ISDP											56
		13	# of Perforstage	40		11.4	<< Above pump time (min)				Flush depth	6730			geth 1,000 CBP depth	1,416	lbs sand ft	
3	VARATCH	2	6554 6556	4	8	Varied	Pump-in test			Slickwater	0	0						
	VARATCH	6	6606 6606	4	8	0	SP and 5 min ISIP			Slickwater	64	64	15.0%	0.0%	0	0		8
	VARATCH	6	6636 6636	4	0	50	Slickwater Pad	0.25	1.25	Slickwater	214	279	50.0%	39.7%	6,750	6,750		14
	VARATCH	2	6636 6636	4	16	50	Slickwater Ramp	1.25	2	Slickwater	150	429	35.0%	60.3%	10,238	16,988		0
	VARATCH	6	No perf			50	Flush (4-1/2")				101	530				16,988		41
	VARATCH	6					ISDP and 5 min ISDP											63
		6	# of Perforstage	40		11.0	<< Above pump time (min)				Flush depth	6514			geth 3,000 CBP depth	2,831	lbs sand ft	
4	VARATCH	4	6236 6236	4	8	Varied	Pump-in test			Slickwater	0	0						
	VARATCH	11	6236 6236	4	8	0	SP and 5 min ISIP			Slickwater	290	290	15.0%	0.0%	0	0		37
	VARATCH	17	6246 6252	4	16	50	Slickwater Pad	0.25	1.25	Slickwater	967	1,257	50.0%	39.7%	30,469	30,469		61
	VARATCH	3	6336 6336	4	12	50	Slickwater Ramp	1.25	2	Slickwater	677	1,935	35.0%	60.3%	48,211	78,680		0
	VARATCH	7	No perf			50	Flush (4-1/2")				86	2,030				78,680		34
	VARATCH	6	No perf				ISDP and 5 min ISDP											131
		15	# of Perforstage	44		47.3	<< Above pump time (min)				Flush depth	6168			geth 1,260 CBP depth	1,180	lbs sand ft	
5	VARATCH	40	6146 6150	4	40	Varied	Pump-in test			Slickwater	0	0						
	VARATCH	5				0	SP and 5 min ISIP			Slickwater	296	296	15.0%	0.0%	0	0		37
	VARATCH	10				50	Slickwater Pad	0.25	1.25	Slickwater	996	1,281	50.0%	39.7%	31,050	31,050		62
	VARATCH	10				50	Slickwater Ramp	1.25	2	Slickwater	690	1,971	35.0%	60.3%	47,093	78,143		0
	VARATCH	2				50	Flush (4-1/2")				80	2,051				78,143		0
	VARATCH	2					ISDP and 5 min ISDP											99
		46	# of Perforstage	40		42.8	<< Above pump time (min)				Flush depth	6118			geth 1,800 CBP depth	1,699	lbs sand ft	
Totals		163			208						gals bbls	6,065 bbls			Total Sand	221,121		491
						2.1						13.0 tanks				Total Scale Inhib. =		

**NBU 921-14H**  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7013	7014	4	4	7011	to	7012.5
	WASATCH	7069	7071	4	8	7013.5	to	7015
	WASATCH	7108	7112	4	16	7037.5	to	7039
	WASATCH	7156	7158	4	8	7062	to	7074.5
	WASATCH	7244	7246	4	8	7100.5	to	7115.5
	WASATCH		No perms			7155.5	to	7158
	WASATCH		No perms			7235.5	to	7240
	WASATCH		No perms			7241	to	7249.5
	# of Perfs/stage				44	CBP DEPTH	6,979	
2	WASATCH	6780	6782	4	8	6778.5	to	6781.5
	WASATCH	6840	6844	4	16	6839	to	6843.5
	WASATCH	6873	6875	4	8	6845.5	to	6847
	WASATCH	6947	6949	4	8	6873	to	6875
	WASATCH		No perms			6947.5	to	6949
	# of Perfs/stage				40	CBP DEPTH	6,720	
3	WASATCH	6564	6566	4	8	6564.5	to	6566
	WASATCH	6606	6608	4	8	6605	to	6608
	WASATCH	6630	6632	4	8	6631	to	6632.5
	WASATCH	6686	6690	4	16	6673	to	6674.5
	WASATCH		No perms			6686.5	to	6689.5
	# of Perfs/stage				40	CBP DEPTH	6,340	
4	WASATCH	6208	6210	4	8	6202	to	6205.5
	WASATCH	6228	6230	4	8	6206.5	to	6217
	WASATCH	6248	6252	4	16	6220.5	to	6237
	WASATCH	6306	6310	3	12	6242.5	to	6245.5
	WASATCH		No perms			6247.5	to	6254
	# of Perfs/stage				44	CBP DEPTH	5,208	
5	WASATCH	5168	5178	4	40	5150	to	5196
	# of Perfs/stage				40	CBP DEPTH	5,118	
	Totals				208			

Fracturing Schedules  
 NBU 921-14H  
 Slickwater Frac

4219.6606  
 100.46811

Stage	Zone	Feet of Pay	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	2	7013	7014	4	4	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	2	7069	7071	4	8	0	ISIP and 5 min ISIP											45
	WASATCH	0	7108	7112	4	16	50	Slickwater Pad			Slickwater	120	120	15.0%	0.0%	0	0		15
	WASATCH	0	7156	7158	4	8	50	Slickwater Ramp	0.25	1.25	Slickwater	399	518	50.0%	39.7%	12,563	12,563		25
	WASATCH	15	7244	7246	4	8	50	Slickwater Ramp	1.25	2	Slickwater	279	798	35.0%	60.3%	19,053	31,616		0
	WASATCH	3	No perfs				50	Flush (4-1/2")				109	906				31,616		45
	WASATCH	5	No perfs					ISDP and 5 min ISDP											131
		34	# of Perfs/stage			44						Flush depth		6993		gal/ft: 1,000 CBP depth	944	lbs sand/ft 14	
							18.8	<< Above pump time (min)											
2	WASATCH	3	6780	6782	4	8	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	5	6840	6844	4	16	0	ISIP and 5 min ISIP											
	WASATCH	2	6873	6875	4	8	50	Slickwater Pad			Slickwater	67	67	15.0%	0.0%	0	0		8
	WASATCH	2	6947	6949	4	8	50	Slickwater Ramp	0.25	1.25	Slickwater	223	290	50.0%	39.7%	7,031	7,031		14
	WASATCH	2	No perfs				50	Slickwater Ramp	1.25	2	Slickwater	156	446	35.0%	60.3%	10,664	17,695		0
	WASATCH	0					50	Flush (4-1/2")				105	551				17,695		44
	WASATCH	0						ISDP and 5 min ISDP											66
		13	# of Perfs/stage			40						LOOK Flush depth		6730		gal/ft: 1,500 CBP depth	1,416	lbs sand/ft 10	
							11.4	<< Above pump time (min)											
3	WASATCH	2	6564	6566	4	8	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6606	6608	4	8	0	ISIP and 5 min ISIP											
	WASATCH	0	6630	6632	4	8	50	Slickwater Pad			Slickwater	64	64	15.0%	0.0%	0	0		8
	WASATCH	2	6686	6690	4	16	50	Slickwater Ramp	0.25	1.25	Slickwater	214	279	50.0%	39.7%	6,750	6,750		14
	WASATCH	3	No perfs				50	Slickwater Ramp	1.25	2	Slickwater	150	429	35.0%	60.3%	10,238	16,988		0
	WASATCH	0					50	Flush (4-1/2")				101	530				16,988		41
	WASATCH	0						ISDP and 5 min ISDP											63
		6	# of Perfs/stage			40						LOOK Flush depth		6514		gal/ft: 3,000 CBP depth	2,831	lbs sand/ft 174	
							11.0	<< Above pump time (min)											
4	WASATCH	4	6208	6210	4	8	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	11	6226	6230	4	8	0	ISIP and 5 min ISIP											
	WASATCH	17	6248	6252	4	16	50	Slickwater Pad			Slickwater	290	290	15.0%	0.0%	0	0		37
	WASATCH	3	6306	6310	3	12	50	Slickwater Ramp	0.25	1.25	Slickwater	967	1,257	50.0%	39.7%	30,469	30,469		61
	WASATCH	7	No perfs				50	Slickwater Ramp	1.25	2	Slickwater	677	1,935	35.0%	60.3%	46,211	76,680		0
	WASATCH	25	No perfs				50	Flush (4-1/2")				96	2,030				76,680		34
	WASATCH	0						ISDP and 5 min ISDP											131
		65	# of Perfs/stage			44						Flush depth		6158		gal/ft: 1,250 CBP depth	1,180	lbs sand/ft 950	
							42.3	<< Above pump time (min)											
5	WASATCH	46	5168	5178	4	40	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0					0	ISIP and 5 min ISIP											
	WASATCH	0					50	Slickwater Pad			Slickwater	296	296	15.0%	0.0%	0	0		37
	WASATCH	0					50	Slickwater Ramp	0.25	1.25	Slickwater	986	1,281	50.0%	39.7%	31,050	31,050		62
	WASATCH	0					50	Slickwater Ramp	1.25	2	Slickwater	690	1,971	35.0%	60.3%	47,093	78,143		0
	WASATCH	0					50	Flush (4-1/2")				80	2,051				78,143		0
	WASATCH	0						ISDP and 5 min ISDP											99
		46	# of Perfs/stage			40						Flush depth		5118		gal/ft: 1,800 CBP depth	1,699	lbs sand/ft 0	LOOK
							42.8	<< Above pump time (min)											
Totals		163				208						gals bbls	6,065	bbls		Total Sand	221,121		
							2.1						13.5	tanks			Total Scale Inhib. =		491

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
UTU-01193

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR MCGEE OIL &amp; GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. (include area code)

435.781.7024

7. If Unit of CA/Agreement, Name and/or No.

UNIT #891008900A

8. Well Name and No.  
NBU 921-14H9. API Well No.  
4304739251

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE/NE SEC. 14, T9S, R21E 2088'FNL, 422'FEL

10. Field and Pool or Exploratory Area  
NATURAL BUTTES11. Country or Parish, State  
UINTAH COUNTY, UTAH

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

THE OPERATOR HAS PERFORMED THE RECOMPLETION ON THE SUBJECT WELL LOCATION.  
THE OPERATOR HAS COMPLETED THE WASATCH FORMATION AND HAS COMMINGLED THE  
NEWLY WASATCH FORMATION, ALONG WITH THE EXISTING MESAVERDE FORMATIONS.  
THE OPERATOR HAS PLACED THE SUBJECT WELL ON PRODUCTION ON 03/26/2009 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 04/02/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**RECEIVED****APR 20 2009****DIV. OF OIL, GAS & MINING**

**ROCKIES**  
**Operation Summary Report**

Well: NBU 921-14H		Spud Conductor: 7/2/2008	Spud Date: 7/7/2008
Project: UTAH		Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION		Start Date: 3/18/2009	End Date: 3/24/2009
Active Datum: RKB @4,795.00ft (above Mean Sea Level)		UWI: NBU 921-14H	

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
3/18/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- RD/RU RIG.
	7:30 - 14:00	6.50	COMP	30		P		RDSU. ROAD RIG AND EQUIP FROM NBU 921-16D TO LOC. SITP 550, SICP 550. OPEN WELL TO PROD TANK. RUSU. PUMP 30 BBLS 2% DOWN TBG. ND WH. NOTE: FOUND SCALE IN TBG HANGER- CHIP OUT TO GET TBG SUB IN. NU BOP. RU FLOOR. PUMP 15 BBLS 2% DOWN CSG. UNLAND TBG FROM 9176'. PULL 2-JTS- HAVE SCALE IN TBG ID. RUN 2-JTS BACK IN. HAVE 269-JTS 2-3/8" L-80 TBG IN, EOT AT 9170'. SDFN
3/19/2009	7:00 - 17:00	10.00	COMP	31		P		PMP 45, RCVR 0. 7:AM HSM. OPEN WELL 500 PSI. BLOW DOWN. KILL WELL. POOH LD 50 JTS 23/8" TBG W/ FILM OF SCALE. FINISH POOH W/ TBG. ND BOP. NU FRAC VALVES. RU CUTTERS. RIH W/ GUAGE RING TO 7336'. RIH W/ BAKER 10K CBP. SET @ 7226'. FILL WELL W/ 100 BBLS 2% KCL. RU B&C. PRES TEST TO 6200 PSI. RD B&C. RIH W/ 33/8" PERF GUN 23GM. 36 HOLE. PERF 7013-14, 7069-71, 7108-12, 7156-58, 7244-46, 44 HOLES. SWI 5:PM
3/23/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, FRACING

## Operation Summary Report

Well: NBU 921-14H	Spud Conductor: 7/2/2008	Spud Date: 7/7/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/18/2009	End Date: 3/24/2009
Active Datum: RKB @4,795.00ft (above Mean Sea Level)	UWI: NBU 921-14H	

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36		P		FRAC STG #1 IN WASATCH 7013'-7246' 44 HOLES.  STG #1] WHP=800# BRK DN PERFS @ 2020#, IJNT PSI=3450#, INJT RT=52, ISIP=1585#, FG=67, PUMP'D 1296 BBLS SLK WTR W/ 31717# 30/50 MESH W/ 5180# RESIN COAT IN TAIL, ISIP=1892#, FG=71, AR=51.9, AP=3370#, MR=52.4, MP=4183#, NPI=307#, 37/44 CALC PERFS OPEN.  STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 6979' PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90° PH, 6947'-6949' 8 HOLES, 6873'-6875' 8 HOLES, 6840'-6844' 16 HOLES, 6780'-6782' 8 HOLES [40 HOLES]  WHP=0#, BRK DN PERFS @ 2723#, INJT PSI=3700#, INJT RT=51.6, ISIP=1546#, FG=67, PUMP'D 585.2 BBLS SLK WTR W/ 17779# 30/50 MESH W/ 5133# RESIN COAT IN TAIL, ISIP=1577#, FG=67, AR=52.1, AP=3281#, MR=52.6, MP=3821#, NPI=31#, 31/40 CALC PERFS OPEN.  STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 6720', PERF WASATCH USING 3-3/8 EXPEND, 0.36" HOLE, 4 SPF, 90° PH, 6686'-6690' 16 HOLES, 6630'-6632' 8 HOLES, 6606'-6608' 8 HOLES, 6564'-6566' 8 HOLES [40 HOLES]  BRK DN PERFS @ 2706#, INJT PSI=3800#, INJT RT=50.6, ISIP=1310#, FG=64, PUMP'D 561.4 BBLS SLK WTR W/ 16998# 30/50 MESH W/ 4975# RESIN COAT IN TAIL. ISIP=1428#, FG=66, AR=51.2, AP=3054#, MR=51.5, MP=3955#, 26/40 CALC PERFS OPEN.  STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 6340', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 6306'-6310' 3 SPF, 120° PH, 12 HOLES, 6248'-6252' 4 SPF, 90° PH, 16 HOLES, [44 HOLES]  WHP=0#, BRK DN PERFS @ 1351#, INJT PSI=2550#, INJT RT=52.3, ISIP=1104#, FG=62, PUMP'D 2119.8 BBLS SLK WTR W/ 768933# 30/50 MESH W/ 4909# RESIN COAT IN TAIL, ISIP=1208#, AR=52.5, AP=2452#, MR=52.7, MP=3015#, NPI=104#, 44/44 CALC PERFS OPEN.  STG#5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 5208', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90° PH, 40 HOLES.  WHP=0#, BRK DN PERFS @ 2102#, INJT PSI=#, INJT RT=, ISIP=510#, FG=54, PUMP'D 2429.2 BBLS SLK WTR W/ 101410# 30/50 MESH W/ 6583# RESIN COAT IN TAIL, ISIP=1640#, FG=76, AR=52.4, AP=2617#, MR=52.7, MP=4363#, NPI=1130#, 30/40 CALC PERFS OPEN. P/U RIH W/ HALIBURTON 8K CBP. SET CBP @ 5118', BLEED WELL OFF, R/D CUTTERS WIRE

## Operation Summary Report

Well: NBU 921-14H	Spud Conductor: 7/2/2008	Spud Date: 7/7/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/18/2009	End Date: 3/24/2009
Active Datum: RKB @4,795.00ft (above Mean Sea Level)	UWI: NBU 921-14H	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
3/24/2009	7:00 -			33	A			LINE & WEATHERFORD FRAC EQUIP. N/D FRAC VALVES, N/U BOPE, P/U 3-7/8 BIT W/ POBS PKG, RIH W/ 2-3/8 TBG, TAG KILL PLUG PREP TO DRL IN A.M. SWIFN. 7 AM FLBK REPORT: CP 2150#, TP 0#, OPEN 64" CK, 0 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 1900 BBLS LEFT TO RECOVER: 4400 HSM, DRLG OUT P/U PWR SWVL EST CIRC W/ RIG PUMP,
	7:00 - 7:15	0.25	COMP	48		P		PLUG #1] DRL THROUGH HALIBURTON 8K CBP @ 5118' IN 4 MIN. 400# INCREASE.
	7:15 - 17:00	9.75	COMP	44	C	P		PLUG #2] CONTINUE TO RIH, TAG SAND @ 5178' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 5208' IN 4 MIN. W/ 50# INCREASE.  PLUG #3] CONTINUE TO RIH, TAG SAND @ 6310' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 6340' IN 5 MIN. 50# INCREASE.  PLUG #4] CONTINUE TO RIH TAG SAND @ 6690' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 6720' IN 5 MIN. 50# INCREASE.  PLUG #5] CONTINUE TO RIH TAG SAND @ 6949' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 6979' IN 5 MIN. 50# INCREASE.  PLUG #6] CONTINUE TO RIH TAG SAND @ 7246' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 7276' IN 5 MIN. USING AIR FOAM TO DRL OUT PLUG TO UNLOAD WELL. CONTINUE TO RIH C/O TO PBD @ 9696' CIRC HOLE, PULL UP R/D PWR SWVL, P/U LUBRICATE HANGER IN WELL & LAND WELL W/ 289 JNTS 2-3/8 L-80 TBG W/ EOT @ 9172.43' R/D TBG EQUIP, N/D BOPE, N/U WELL HEAD, DROP BALL PUMP OF BIT W/ 1800#, TURN WELL OVER TO FLOW BACK CREW. 7 AM FLBK REPORT: CP 1575#, TP 850#, 30/64" CK, 15 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 2210 BBLS LEFT TO RECOVER: 4090 WELL TURNED TO SALES @ 1000 HR ON 3/26/2009 - FTP 850#, CP 1500#, CK 24/64", 2700 MCFD, 360 BWPD 7 AM FLBK REPORT: CP 1575#, TP 850#, 30/64" CK, 15 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 2210 BBLS LEFT TO RECOVER: 4090
3/25/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1450#, TP 1000#, 24/64" CK, 5 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 2380 BBLS LEFT TO RECOVER: 3920
3/26/2009	7:00 -		PROD					7 AM FLBK REPORT: CP 1450#, TP 1000#, 24/64" CK, - BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 2566 BBLS LEFT TO RECOVER: 3734
	7:00 -		PROD	33	A	P		
3/27/2009	7:00 -			33	A			
3/28/2009	7:00 -			33	A			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. UTU-01193			
b. Type of Completion: <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: <b>Reperf</b>						6. If Indian, Allottee or Tribe Name TRIBAL SURFACE			
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP						7. Unit or CA Agreement Name and No. UNIT #891008900A			
3. Address 1366 SOUTH 1200 EAST VERNAL, UTAH 84078						8. Lease Name and Well No. NBU 921-14H			
3a. Phone No. (include area code) 435.781.7024						9. AFI Well No. 4304739251			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface SE/NE 2088'FNL, 422'FEL  At top prod. interval reported below  At total depth						10. Field and Pool or Exploratory NATURAL BUTTES			
14. Date Spudded 07/02/2008						15. Date T.D. Reached 07/23/2008			
16. Date Completed 03/26/2009 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						17. Elevations (DF, RKB, RT, GL)* 4780'GL			
18. Total Depth: MD 9750' TVD						19. Plug Back T.D.: MD 9696' TVD			
20. Depth Bridge Plug Set: MD TVD						21. Type Electric & Other Mechanical Logs Run (Submit copy of each) N/A			
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14" STEEL	36.7#		40'		28 SX			
12 1/4"	9 5/8" J-55	36#		2760'		625 SX			
7 7/8"	4 1/2 I-80	11.6#		9750'		1760 SX			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8"	9172								
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) WASATCH	5168'	6992	5168'-7246'	0.36	208	OPEN			
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
5168'-7246'		PMP 6992 BBLS SLICK H2O & 244,727# 30/50 OTTOWA SD							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
3/26/09	3/28/09	0	→	0	2425	120			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
18/64	1069#	1426#	→	0	2425	120		PRODUCING GAS WELL	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1652'				
BIRDS NEST	1997'				
MAHOGANY	2488'				
WASATCH	5016'	7696'			
MESAVERDE	7795'	9662'			

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 05/08/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.